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ANNUAL REPORT

OF THE

Department of Public Health

INCLUDING

Vital Statistics Branch

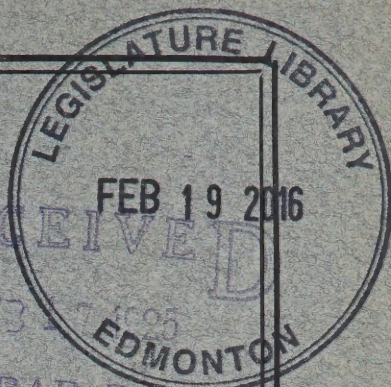
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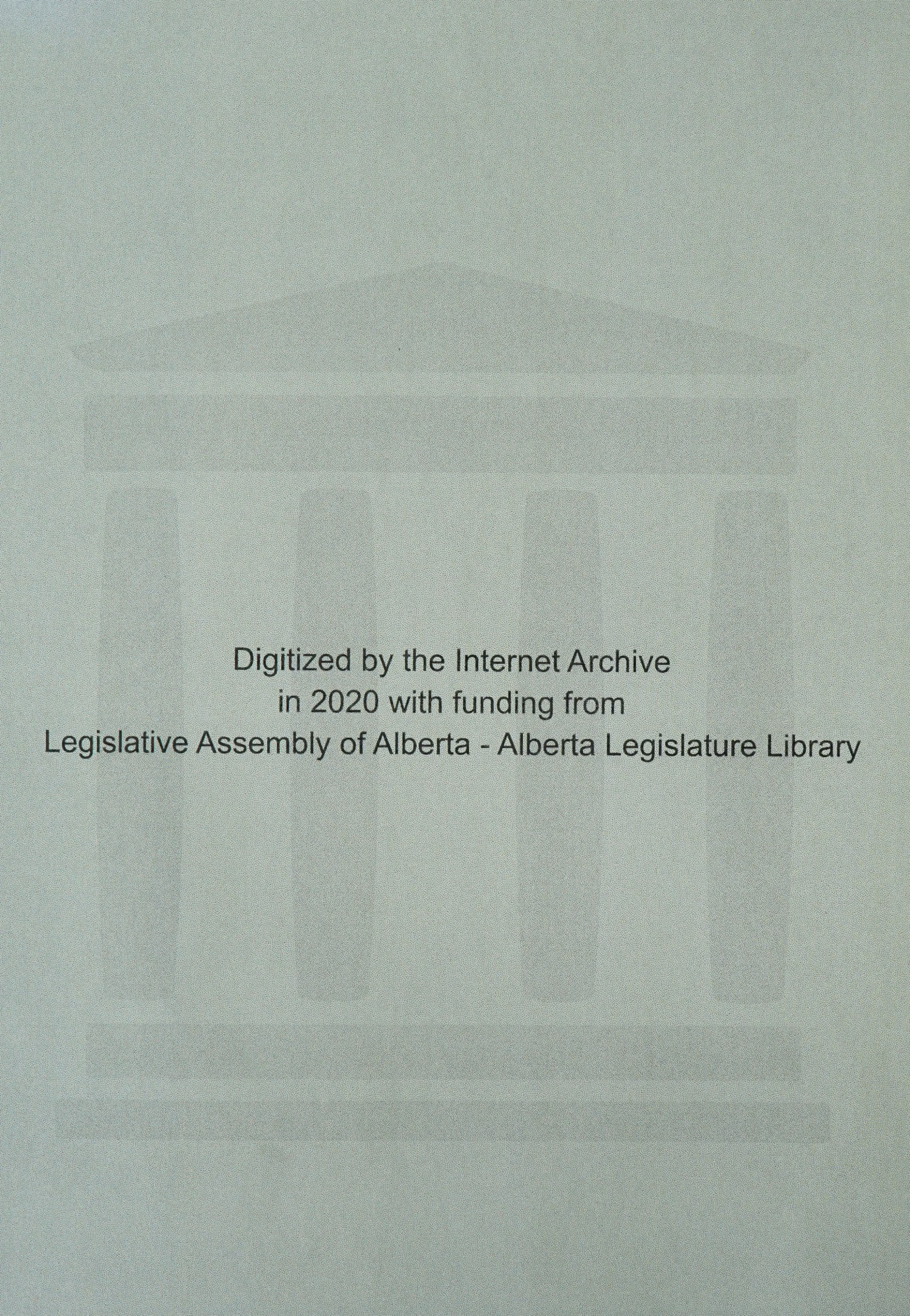
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EDMONTON:

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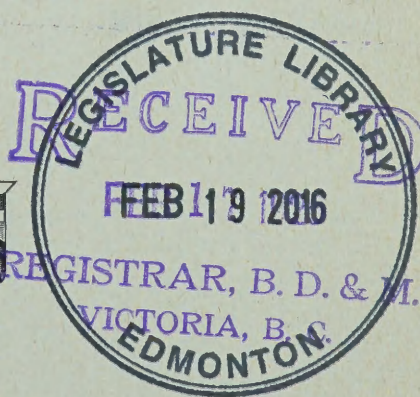




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EDMONTON:
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Edmonton, February 8th, 1924.

To His Honour

ROBERT GEORGE BRETT,

Lieutenant-Governor of the Province of Alberta.

SIR,—

I have the honour to transmit herewith the Annual Report of the Department of Public Health for the year 1923.

I have the honour to be, Sir,

Your obedient servant,

R. G. REID,

Minister of Health.

Report of the Department of Public Health

SIR,—

I have the honour to submit the Fifth Annual Report of the Department of Public Health.

In 1922 the Provincial Mental Hospitals at Ponoka and Red Deer and the Provincial Training School at Edmonton South came under the control of this Department. The new buildings at Oliver were intended for the reception of mental defectives, but it was found that these buildings would not be suitable for the care of this class of cases unless additional buildings were erected. It had been the intention to use the two buildings at Oliver for children of a fairly high grade and maintain the infirmary cases in the home on the south side. The demand for admissions was mostly for infirmary cases, and in order to relieve the situation it was decided to remove the insane from Red Deer to Oliver and use the Red Deer hospital for the mental defectives. Arrangements were made in the spring of 1923, and in the middle of the summer the transfer was completed; the inmates of Red Deer were sent to Ponoka, the children in the Edmonton Home were transferred to Red Deer, the home on the south side being closed. A small body of the better type of patients from Ponoka were sent to Oliver to assist in the work of preparing the buildings and grounds prior to the admission of the bulk of the patients. It is now the intention to use Oliver for the chronically insane. All patients will be admitted through Ponoka and active treatment cases will, as far as possible, be cared for at Ponoka. When considered advisable a patient will be transferred from Ponoka to Oliver. It is expected that this re-distribution of mental cases will obviate the necessity of building further accommodation at Ponoka or Oliver until 1926.

The reports of the various branches are submitted:

THE REPORT OF THE PROVINCIAL SANITARY ENGINEER

This branch is doing a great deal of very useful and necessary advisory work. Our inspectors are constantly on the move and visit every part of the Province, advising on sanitary matters.

Two experimental plants for the purpose of determining as to the best system of sewage disposal for Alberta were constructed in connection with the Government institutions at Ponoka and Oliver. These are of the latest process suitable to this Province, known as the activated sludge process. The effluent now produced at Ponoka is of a very high quality, and the nuisance complained of in the past has been completely eliminated.

REPORT OF THE PROVINCIAL BACTERIOLOGIST

The Provincial Laboratory continues to grow. The commercial value of the work done in this laboratory is quite large, and were charges made it would be on a self-sustaining basis.

REPORT OF THE PUBLIC HEALTH NURSING BRANCH

Owing to financial conditions the Public Health nursing staff was reduced during the year, and much disappointment was felt that we were not able to carry on this most excellent work. The co-operation of this

Branch and the Women's Extension Branch of the Department of Agriculture has been very close, and arrangements were made for many lectures and nursing demonstrations throughout the Province during the year.

REPORT OF THE HOSPITALS BRANCH

This Branch has also felt the effect of the financial conditions of the Province, and the extension of hospital service has not been as marked as in other years. With the good crop it is expected that there will be a number of schemes submitted to the people for ratification this year.

REPORT OF THE VENEREAL DISEASES BRANCH

Dr. Emerson Smith has charge of this Branch during the absence of Dr. Harold Orr on leave. Dr. Smith has rendered excellent service throughout the year.

All of which is respectfully submitted.

W. C. LAIDLAW,
Deputy Minister.

HON. GEORGE HOADLEY,
Minister of Health.

Report of Provincial Board of Health

SIR,—

I have the honour to submit the Annual Report of the Provincial Board of Health.

The Provincial Board met at various times throughout the year and dealt with various questions which were brought before it.

Regulations governing many subjects, including milk, nursery milk, maternity homes, plumbing regulations and other subjects of a Public Health nature were considered and forwarded to the Lieutenant Governor in Council.

In June the Annual Meeting of the Canadian Public Health Association was held in Edmonton. A representative gathering of members of societies interested in the various phases of Public Health were present. Public meetings were addressed by distinguished visitors, including Dr. Parfitt, of Gravenhurst, President-Elect of the Canadian Tuberculosis Association; Mr. A. B. Cook, Regina, President of the Canadian Tuberculosis Association; Mrs. Emmeline Pankhurst, of the Social Hygiene Council; Dr. Bates, Secretary of that Council; and Dr. Haegerty, of the Dominion Department of Health. The meetings were largely attended and aroused great interest.

In December, Dr. Laidlaw attended the meeting of the Dominion Council of Health at Ottawa, and at the same time attended the meeting of the Canadian Tuberculosis Association. Arrangements were made by the Canadian Tuberculosis Association for a grant of \$1000 to the Alberta Tuberculosis Association for the purpose of putting on a survey. Many subjects of great interest were discussed, one chiefly of interest to the Province of Alberta being examination and control of all immigrants from a standpoint of health, allowing only the physically and mentally fit to enter the country. Strong representations were made by the various Western representatives as to the proportion of mentally unfit who are foreign-born in mental institutions of their Provinces.

INFECTIOUS AND COMMUNICABLE DISEASES

The number of cases reported during 1923 as compared with 1922:

DISEASE	1923	1922
Diphtheria	832	730
Scarlet Fever	1,321	1,002
Smallpox	62	68
Typhoid Fever	155	169
Chickenpox	895	1,003
Infantile Paralysis	1	15
Meningitis	1	0
Erysipelas	42	0
Lethargic Encephalitis	5	1
Poliomyelitis	4	0
Anthrax	1	0
Measles	1,874	2,811
Mumps	285	286
Tuberculosis	148	124
Whooping Cough	977	314
Other Diseases	—	38

SMALLPOX.—Sixty-two cases were reported during the year with no deaths. This shows that the disease is of a very mild type, but immunity of the people to a serious type of the disease need not be assumed on account of the type at present with us. As long as there is a large unvaccinated population, especially amongst the young, there are liable to be serious outbreaks of Smallpox.

TYPHOID FEVER.—One hundred and fifty-five cases; thirty-six deaths. The death rate per 100,000 is 6. This compares very favourably with the death rate in other Provinces and States. It is, however, much higher than should be when one considers the means of prevention available and the knowledge gained during the War when anti-typhoid inoculation was so generally practised.

DIPHTHERIA.—Eight hundred and thirty-two cases with eighty-two deaths; a death rate of nearly 10%. Diphtheria is a disease for which we have reasonably sure method of prevention and cure. The cause of death in most cases is due to the fact that remedies are not applied until too late a period. The results of antitoxin treatment depend upon the amount of the dose and the day on which it is given. An adequate dose administered on the first day of the disease will in practically every case insure recovery.

SCARLET FEVER.—One thousand, three hundred and twenty-one cases with thirty-five deaths; a death rate of 2.7. This is about the normal death rate in mild cases. There were a considerable number of cases throughout the cities and country, fortunately of a mild type.

TUBERCULOSIS.—Two hundred and one deaths. The Central Alberta Sanatorium which was opened in December, 1920, had at the end of 1923 ninety-three civilian patients. Further additions have been made to the infirmary space at the sanatorium; one pavilion was converted into an infirmary, giving an extra thirty-two infirmary beds.

Surgical tuberculosis, especially cases of bone diseases, have been treated at the Junior Red Cross Hospital in Calgary and the University Hospital in Edmonton. Excellent work has been done in both these hospitals and a large number of crippled children are being restored to health.

WHOOING COUGH.—There were fifty-four deaths from this disease during the year. Practically all these deaths occurred in children under five years of age. It should, therefore, be looked upon as a most serious disease in a young child.

INCURABLE AND AGED DESTITUTES.—Accommodation is provided for this class of cases at Macleod and Daysland, and also at Lacombe Home, Midnapore. Negotiations are under way whereby increased accommodation may be obtained for this type of case and the hospitals relieved of cases which no longer require active treatment. It is hoped that an arrangement with the Galt Hospital, Lethbridge, will be made to house twenty or thirty of these people.

All of which is respectfully submitted.

W. C. LAIDLAW,
Chairman.

HON. GEO. HOADLEY,
Minister of Health.

SMALLPOX—1923

	SEX	MONTHS												AGES							TOTAL
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59	60-69		70-over
Cities:																					
Calgary	1	1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Edmonton	15	8	—	16	4	1	—	—	—	—	—	—	—	—	—	3	16	4	—	—	—
Lethbridge	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Medicine Hat	4	4	1	—	1	2	1	—	1	1	1	1	—	1	2	2	2	1	—	—	—
Towns and Villages	2	2	—	—	2	—	—	—	—	2	—	—	—	—	1	1	1	—	—	—	—
Rural Districts	14	10	5	1	3	4	2	—	—	—	—	—	—	—	6	9	7	2	—	—	—
Totals	37	25	6	1	2	16	11	8	3	—	1	4	4	6	2	12	29	17	2	—	—

TYPHOID FEVER—1923

Cities:																					
Calgary	27	10	—	—	—	2	—	—	2	5	9	15	3	1	4	8	16	5	2	2	37
Edmonton	27	17	9	3	—	2	—	—	2	2	11	12	2	1	1	5	14	21	2	1	44
Lethbridge	11	2	2	—	—	—	1	—	—	—	1	3	3	3	2	3	4	3	1	—	13
Wetaskiwin	1	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1	—	—	—	—	1
Towns and Villages	13	17	1	—	—	1	2	6	5	5	5	5	4	1	2	14	6	7	—	1	30
Rural Districts	17	13	—	2	—	1	3	5	1	1	1	8	9	—	—	7	10	10	1	—	30
Totals	96	59	12	5	3	5	4	3	13	14	27	43	21	5	11	35	50	46	6	4	155

WHOOPIING COUGH—1923

Cities:																					
Calgary	134	153	2	9	7	26	21	19	41	51	33	45	30	3	16	100	168	1	2	—	287
Edmonton	261	309	25	22	15	25	24	40	37	128	74	42	58	80	56	234	274	2	4	—	570
Lethbridge	2	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	2
Medicine Hat	10	10	6	8	4	2	—	—	—	—	—	—	—	—	2	6	10	1	1	—	20
Towns and Villages	21	18	2	—	19	—	—	—	—	1	15	1	—	1	9	25	4	1	—	—	39
Rural Districts	36	23	5	—	19	11	—	—	—	7	—	1	16	—	12	21	23	3	—	—	59
Totals	464	513	41	40	64	64	45	59	78	187	122	89	101	84	86	370	502	8	11	—	977

LETHARGIC ENCEPHALITIS—1923

	SEX		MONTHS												AGES							TOTAL	
	M.	F.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	0-1	1-4	5-14	15-24	25-44	45-59	60-69		70-over
Cities:																							
Edmonton	2	1	—	1	1	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	3
Lethbridge	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1
Rural Districts	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1
Totals	3	2	—	2	2	1	—	—	—	—	—	—	—	—	—	1	2	1	—	—	1	—	5

DIPHTHERIA—1923

Cities:																							
Calgary	115	127	22	5	7	11	17	9	14	16	12	48	47	34	—	35	152	32	19	4	—	—	242
Edmonton	75	82	10	6	6	4	15	9	5	10	21	23	26	22	—	36	78	18	22	3	—	—	157
Lethbridge	28	49	13	5	9	6	6	6	2	1	5	10	3	11	—	11	46	11	8	—	1	—	77
Medicine Hat	7	9	3	—	1	2	—	—	—	1	6	—	2	1	—	3	6	3	4	—	—	—	16
Wetaskiwin	1	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1	—	—	—	—	1
Towns and Villages	61	50	22	6	8	2	12	14	3	9	10	7	6	12	—	11	73	13	13	—	1	—	111
Rural Districts	106	122	37	26	9	19	11	12	4	31	14	23	19	23	3	36	140	27	19	3	—	—	228
Totals	393	439	107	48	40	44	61	50	28	69	68	111	103	103	3	132	495	105	85	10	2	—	832

SCARLET FEVER—1923

Cities:																							
Calgary	191	231	37	33	22	26	28	35	14	27	33	71	50	46	2	76	281	29	30	3	1	—	422
Edmonton	192	194	58	31	29	16	32	13	21	8	20	38	47	73	2	99	223	44	18	—	—	—	386
Lethbridge	17	14	3	—	6	—	—	—	1	1	—	1	5	15	—	6	20	4	1	—	—	—	31
Medicine Hat	6	8	2	1	1	2	2	2	—	1	—	2	1	—	—	2	5	5	2	—	—	—	14
Red Deer	3	4	—	—	—	—	—	—	—	—	5	—	—	2	—	2	4	—	1	—	—	—	7
Wetaskiwin	6	3	1	—	2	—	1	—	—	—	1	—	3	1	—	2	5	—	2	—	—	—	9
Towns and Villages	93	106	32	15	8	11	10	9	8	6	8	22	38	32	4	38	140	8	9	—	—	—	199
Rural Districts	119	134	44	29	18	15	18	14	6	26	17	8	38	20	2	51	156	31	13	—	—	—	253
Totals	627	694	177	109	86	70	81	73	49	69	74	142	182	189	10	276	834	121	76	3	1	—	1321

Report of Provincial Sanitary Engineer

SIR,—

I beg to submit herewith the seventeenth Annual Report of the Branch of the Provincial Sanitary Engineer.

The following is a detailed list of works for which Provincial Board of Health Certificates have been issued, together with the estimated cost of each.

WATERWORKS

Calgary—Certificate No. 182-23, Waterworks extensions. Estimated Cost	\$ 144.00
Cowley—Certificate No. 177-23, Waterworks extensions, Estimated Cost	5,000.00
Drumheller—Certificate No. 176-23, Waterworks extensions. Estimated Cost	5,401.00
Drumheller—Certificate No. 178-23, Waterworks extensions. Estimated Cost	4,198.00
Edmonton—Certificate No. 166-23, Waterworks extensions. Estimated Cost	22,000.00
Edmonton—Certificate No. 170-23, Waterworks extensions. Estimated Cost	86,000.00
Edmonton—Certificate No. 181-23, Waterworks extensions. Estimated Cost	10,000.00
Edmonton—Certificate No. 182a-23, Waterworks extensions. Estimated Cost	4,000.00

SEWERAGE WORKS

Calgary—Certificate No. 164-23, Sewer extensions. Estimated Cost	\$ 969.90
Calgary—Certificate No. 165-23, Sewer extensions. Estimated Cost	5,271.00
Calgary—Certificate No. 168-23, Sewer extensions. Estimated Cost	2,234.00
Calgary—Certificate No. 169-23, Sewer extensions. Estimated Cost	306.75
Calgary—Certificate No. 174-23, Sewer extensions. Estimated Cost	567.10
Calgary—Certificate No. 175-23, Sewer extensions. Estimated Cost	2,136.00
Calgary—Certificate No. 183-23, Sewer Extensions. Estimated Cost	154.43
Drumheller—Certificate No. 167-23, Sewage Disposal works. Estimated Cost	46,602.00
Drumheller—Certificate No. 180-23, Sewage Disposal works. Estimated Cost	16,613.00
Edmonton—Certificate No. 171-23 Sewer extensions. Estimated Cost	35,000.00
Edmonton—Certificate No. 179-23, Sewer extensions. Estimated Cost	63,663.00
Lethbridge—Certificate No. 173-23, Extensions to sanitary system. Estimated Cost	8,324.65
Oliver—Certificate No. 172-23, Sewage disposal works. Estimated Cost	10,000.00
Calgary—Certificate No. 184-23, Water and Sewer connections. Estimated Cost	10,000.00

Plans, specifications, and proposals in connection with sanitary engineering works submitted to the Public Utilities Commission were examined and advice given.

The preparation of Public Health legislation and legal work generally in connection with the work of the Provincial Board of Health has been, as usual, carried out by this branch of the Department of Health.

The duties of the Provincial Sanitary Engineer as a member of the Provincial Board of Health have been given the usual and necessary amount of attention.

Other miscellaneous Governmental works and duties have been duly attended to.

At the new institution for mental defectives at Oliver an activated sludge system of sewage disposal was completed.

Plans and specifications of proposed hospitals submitted in compliance with the requirements of The Hospitals Act were examined.

Several of the public institutions coming under the administration of the Public Works Department were visited and the sanitary engineering works in connection with these institutions inspected.

During the year the reports on the analyses of water, ice and milk were examined, and where necessary, action was taken thereon. There were reports on five hundred and ninety-four bacteriological samples of water, of these four hundred and ninety-nine had negative and ninety positive results. There were reports on two hundred and eighty-one chemical samples of water, of these two hundred and twenty-nine had negative and fifty-two positive results. There were reports on five bacteriological samples of ice, of these four had negative and one positive results. There were reports on six hundred and twenty samples of cows' milk, of these five hundred and forty-five were bacteriological, nine chemical, and fifty-six chemical and bacteriological. Action on these reports was taken where necessary.

One thousand and forty-six pounds of meat, thirteen pounds of sausage and thirty pounds of fish were seized as unfit for human food, all of which was destroyed.

Two dairymen were prohibited from disposing of milk under Regulation 82A of The Public Health Act; one of these having complied with the requirements of the local boards of health has again been granted permission to sell milk as provided under the aforementioned regulation.

We commenced the year 1923 with five sanitary inspectors in our employ, and have continued throughout the year with this number. During the fair season, one of the inspectors was relieved of sanitary inspection work to take over, prepare and erect the health exhibit.

Our sanitary inspectors made inspection of two hundred and forty health districts; two hundred and twenty-seven of these districts were given a second inspection, while nineteen of this number were subjected to a third inspection. Ninety-four visits were made to investigate complaints, or for other purposes such as a special request for inspection, locating suitable sites for nuisance grounds, hospital sites, cemetery sites, creamery sites, etc. In each case where complaint was made and on investigation was found to be justified, the necessary steps were taken and the matter properly adjusted. Eight inspections were made of summer resorts, four of these being inspected a second time. Forty-five inspections of hospitals were made for the purpose of inspecting plumbing fixtures, ventilation, and sewage disposal.

In pursuance of the aforementioned inspection work our inspectors personally issued three hundred and fourteen notices to abate nuisance and instructed the issuing of a considerably larger number by the executive officer of the respective local boards.

Eighty-two prosecutions for infractions of The Public Health Act were carried out by our inspectors, and 100% convictions obtained. When an inspector leaves to investigate an individual complaint, he is instructed to make an inspection of as much of that locality as he can do before he returns to headquarters with his report and for reimbursement of his expenses. This accounts for the order in which these inspections are made.

When an inspector visits a health district his instructions are, previous to commencing his inspection, to call upon the secretary of the local board and invite him on the tour of inspection.

Our inspectors include in their inspection and report the sanitary condition of the following: Waterworks, ice supplies, sewage disposal works, nuisance grounds, system scavenging, livery stables, abattoirs, slaughter houses, meat stores, dairies, creameries, hotels, lodging houses, restaurants, cafes, railway stations, hospitals, ice cream and soft drink parlors, bakeries, schools, places of noxious and offensive trades, cow barns, dairy farms, the inside and outside of every business house, and the outside surroundings of every private house.

Co-operating with the other branches of the Department, the services of the sanitary inspectors have been used in connection with the inspection of hospitals, investigation of the circumstances of persons receiving charity and relief from the Department and the investigation of the causes of outbreaks of epidemics of infectious disease.

The Public Health exhibit was placed in charge of one of the sanitary inspectors and exhibited in Edmonton.

A baby clinic was held in connection with the exhibit in Edmonton.

The health exhibit consisted of a series of posters describing baby welfare, child welfare, school inspection and social hygiene; mechanical devices describing tuberculosis and dairy farms; small poster describing tuberculosis, its causes and effects; and complete equipment for the nursing of children which is explained by our nurses in attendance.

In connection with the latter features, should any exhibition authority desire to have a baby clinic held, that authority could arrange with the local doctors to hold a clinic and the services of our nurses would be available in connection therewith.

The staff accompanying the exhibit consists of two nurses and one sanitary inspector, from whom information could be had by visitors to the exhibition.

Respectfully submitted,

R. B. OWENS, B.A., B.E.,

Provincial Sanitary Engineer.

DR. W. C. LAIDLAW,

Deputy Minister of Health.

Report of the Director of the Provincial Laboratory

SIR,—

I have the honour to submit the following report of the work done in the Provincial Laboratory during the year 1923:

LABORATORY EXAMINATIONS

TABLE No. 1. gives in some detail the examinations made during the year under consideration in comparison with the work done during the preceding year. It will be observed that there has been a considerable increase in the number of water samples examined, and in the examination of pathological material, while the most outstanding decrease is in the examination of smears for the presence of the gonococcus. This relative alteration has, however, increased the commercial value of the work as set forth in the Appendix.

TABLE No. 1

	Total No. Specimens 1922	Total No. Specimens 1923	Increase	Decrease
COMMUNICABLE DISEASES:				
Sputum	451	408		43
Diphtheria	1,229	1,078		151
Typhoid Fever	217	156		61
WATER :				
Bacteriological	412	594	182	
Chemical	251	281	30	
MILKS :				
Bacteriological	586	545		28
Bacteriological and Chemical	42	9		4
Chemical	10	56		
Mothers' Milk	61	57		
Miscellaneous Examinations	837	912	75	
Smears for the Presence of the Gonococcus	1,346	838		508
Bloods for the Wassermann Test	5,008	5,061	53	
Pathological Histological Material	1,501	1,964	463	
Total	11,951	11,959	803	795

TABLE No. 2 shows the number of containers prepared and distributed, and the quantity of Typhoid and other vaccines prepared and sent out.

TABLE No. 2

	Containers	Vaccine
WATER CONTAINERS :		
Bacteriological	376	
Chemical	269	
Special Containers	1,665	
Blood Containers	4,470	
Typhoid Vaccine		1,825 c.c.
Other Vaccines		575 c.c.
	6,780	2,400 c.c.

TABLE No. 3 indicates the part played by the Laboratory in the control of infectious diseases.

TABLE No. 3
SPECIMENS EXAMINED FOR THE DIAGNOSIS OF COMMUNICABLE DISEASES

DISEASE	No. of Specimens		No. of Physicians	No. of Post Offices	Month	Specimens received each month			
	Positives	Negatives				Sputum	Diphtheria	Typhoid	Total
Pulmonary Tuberculosis	64	344	226	107	January February March April May June July August September October November December	46 30 48 40 46 31 26 35 19 30 21 36	89 71 62 43 76 101 55 47 67 112 181 174	21 5 11 5 9 10 8 14 24 33 11 5	156 106 121 88 131 142 89 96 110 175 213 215
Diphtheria	222	856							
Typhoid Fever	25	131							
Total	311	1,331	226	107	Total	408	1,078	156	1,642

TABLE No. 4 shows the number of blood examinations for the diagnosis of Syphilis performed during the year. Dr. Shaw has continued to do this work.

TABLE No. 4.

WASSERMANN REACTION FOR THE DIAGNOSIS OF SYPHILIS

Bloods Received	5,153
Bloods Examined	5,061
Bloods positive to reaction	989
Bloods negative to reaction	4,072
Bloods unsuitable for examination	92

PATHOLOGICAL HISTOLOGICAL DIAGNOSIS

The increase in this work has been 30%. Last year 1,501 specimens were examined while during the present year 1,964 specimens have been examined. This work has been under Dr. J. J. Ower, assisted by Dr. H. M. Vango.

WATER WORK

The number of samples of water examined bacteriologically was 594, the number examined chemically 281, an increase of 212 examinations (32%) over the figures of last year. Both bacteriological and chemical examinations of water are highly technical and the interpretation of the results is something which requires considerable experience. The chemical part of the work has been carried out by Mr. J. A. Kelso.

TABLE No. 5 gives the details of these examinations.

TABLE No. 5

Number of samples of water examined bacteriologically and found unfit for human consumption	90
Number of samples of water examined bacteriologically and found fit for human consumption	499
Number of samples of ice examined bacteriologically and found fit for human consumption	4
Number of samples of ice examined bacteriologically and found unfit for human consumption	1
Number of samples of water examined chemically and found unfit for human consumption	52
Number of samples of water examined chemically and found fit for human consumption	229
Total	875

EXAMINATION OF COWS' MILK

Table No. 6 gives the details of these examinations.

TABLE No. 6

Number of milk samples received and examined	610
Number of milk samples unsuitable for examination	10
	620
	==
Number of milk samples examined bacteriologically	545
Number of milk samples examined bacteriologically and chemically	56
Number of milk samples examined chemically	9
Number of milk samples unsuitable for examination	10
	==
Total	620

MISCELLANEOUS EXAMINATIONS

Miscellaneous examinations include a varied list such as Medico-legal examinations (blood stains, etc.), examinations of foods, examinations in connection with diseases of animals, etc.

THE EXAMINATION OF SMEARS FOR GONORRHOEA

There were 838 specimens examined for the presence of the gonococcus.

The whole respectfully submitted.

I have the honour to be, Sir,

Your obedient servant.

ALLAN C. RANKIN, M.D.

Director.

DR. W. C. LAIDLAW,

Deputy Minister of Health.

APPENDIX

ESTIMATED COMMERCIAL VALUE OF WORK IF MINIMUM CHARGE WERE MADE

Material	No. of Specimens	Price per Specimen	Total
Sputum	408	\$ 2.00	\$ 816.00
Diphtheria	1,078	2.00	2,156.00
Typhoid fever	156	2.00	312.00
Waters	875	15.00	13,125.00
Milks	610	5.00	3,050.00
Mothers' Milk	57	2.00	114.00
Miscellaneous Examinations	912	5.00	4,560.00
Gonorrhoea	838	2.00	1,676.00
Wassermann Test	5,061	5.00	25,305.00
Pathological Material	1,964	5.00	9,820.00
Total	11,959	.....	\$60,934.00

Increase, \$4,461.00.

Public Health Nursing Branch

SIR,—

I beg to submit herewith the Sixth Annual Report of the Nursing Branch, Department of Public Health.

At the beginning of the year as a part of the Government's programme of economy the staff of the Public Health nurses was reduced from twenty to six nurses.

The Child Welfare Clinics already established in the different cities were continued, one Public Health nurse being in charge of each clinic, the three other Public Health nurses were reserved for rural Child Welfare work.

Previous to 1923 the Public Health nursing service was practically maintained by the Government. At the beginning of this year the policy reverted to one outlined by the Department two years ago, but owing to financial conditions was not put into practice. This policy places the service on a 50% basis with the Municipalities. Two rural districts entered into this scheme, viz:

Drumheller District: Embracing the Municipal Districts of Mecheche and Carbon, the Town of Drumheller, and the organized villages included.

Vegreville District: Taking in the Municipal District of Birch Lake, and Norma, and all the organized villages within the district.

During the summer vacation when schools were closed, the nurses in these districts conducted baby clinics at every available point within the district. Permanent baby clinics are conducted periodically at the most logical centres in the districts.

The other nurse reserved for rural work conducted a lecturing tour during the months of June and July. This itinerary was arranged by the Women's Extension Service. There was a total attendance of 697 at the twenty-eight lectures given on this tour.

When the curtailment of the staff of Public Health nurses became generally known, protests were received from practically every Women's Institute in the Province as well as from school boards and other organized bodies. In order to familiarize the people with the new policy, a circular letter was sent to the Municipal Councils in various centres of the Province. Some forty councils were personally interviewed. While practically all favored the scheme, financial conditions proved the chief obstacle in not accepting it. The number of districts organized under the new policy may seem small, yet we feel in the interest of Public Health more vigorous steps should be taken to educate parents and others in a practical way in domestic hygiene, with a view to conserving the health and strength of the rising generation, rendering them hardy, healthy and resistive to disease.

STATISTICAL REPORT

No. of Schools Inspected	135
No. of Health Inspections	6,937
No. of Classroom Inspections	928
No. of Treatments	120
No. not Vaccinated	3,825
No. with Defects	3,410
No. without Defects	3,381
No. with Malnutrition	785
No. with Deformities	14

DEPARTMENT OF PUBLIC HEALTH

SUSPECTED DEFECTIVE CONDITIONS

Vision	680
Hearing	100
Adenoids	385
Tonsils	806
Teeth	2,045
Mental Defectives	19

SYMPTOMS DETECTED

Trachoma	2
Pink Eye	12
Other Eye Conditions	114
Enlarged Thyroid Gland	158
Discharging Neck Gland	1
Nervous Symptoms	75
Tuberculosis	13
Pediculosis	315
Scabies	43
Impetigo	26
Ringworm	8
Other Skin Conditions	98
Communicable or Infectious Diseases	210

WORK DONE

Child Welfare Clinics	62
Attendance at Clinics	916
Schoolroom Talks	151
Home Visits	1,027
Demonstrations	45
Interviews	22
Attendance at Lectures	2,020

FOLLOW-UP WORK

T. B. Cases Visited	46
Social Service Calls made	263
Orthopaedic Cases	13

RESULTS OBTAINED

Glasses Fitted	121
Glasses Refitted	8
Tonsils Removed	102
Adenoids Removed	81
Dental Treatment	354
Surgical Treatment	12
Medical Treatment	12

CHILD WELFARE CLINICS

With the opening of a permanent Child Welfare Clinic in Calgary, the Nursing Branch has been able to serve a much larger population. Though this clinic has only been in operation a little over a year, the attendance has been most gratifying, and cases needing treatment are referred to the School Medical Department. The following are the figures for the Child Welfare Clinics in Edmonton, Medicine Hat and Calgary:

STATISTICAL REPORT

No. Enrolled	4,318
No. in Attendance	8,661
No. of Clinics held	352
No. of Nurses' Visits	4,108
Breast-fed Babies	1,518
Bottle-fed Babies	2,130

DEFECTIVE CONDITIONS FOUND

Malnutrition	350
Intestinal Indigestion	195
Skin Condition	120
Phimosis	168

Tonsils	334
Adenoids	185
Hernia	117
Rickets	36
Tuberculosis	3
Mental Defectives	5

TRAVELLING CHILD WELFARE CLINIC

The demand for the Travelling Child Welfare Clinic was heavy, but owing to our reduced staff this service was considerably curtailed, yet wherever possible arrangements were made. Clinics were held in connection with the Soldiers' Settlement Board; Agricultural Societies and Women's Organizations. In July, Miss B. Emerson, P.H.N., conducted a series of clinics in the Taber Constituency. Miss McMillan, Director of Women's Home Bureau Service, accompanied her and gave lectures on "Nutrition in Relation to Dentition." This arrangement proved most satisfactory, as was evidenced by the large and enthusiastic attendance.

At the request of the Calgary Child Welfare Association, a Public Health nurse was present at their Child Welfare week, moving pictures were shown and lectures given.

On account of an outbreak of measles amongst the Hebrideans, a Public Health nurse was dispatched to organize and supervise this colony during the epidemic. This afforded our Department a unique opportunity of demonstrating to new settlers our laws regarding infectious diseases and sanitation.

HEALTH EXHIBIT

This year the Department of Health occupied the entire Women's Building at the Edmonton Exhibition. In addition to the ever popular Baby Conference and Health Exhibit, composed of health posters, attractoscope, etc., the services of Mrs. MacGregor Smith, President of the Home Economic Association were secured, and a demonstration of proper and improper foods displayed. Children over six years were weighed and measured, and advice given those who were found under-weight.

Babies and Children of Preschool age	93
Children over 6 years weighed and measured.....	612
Meal Plans Distributed	750

Through the kindness of the City Dairy, individual bottles of milk were distributed free of charge.

AGRICULTURAL SCHOOLS

As in former years the Agricultural Schools have been supplied with a Public Health nurse to give instructions in Home Nursing, First Aid, etc., also the Normal School students have received instructions in the Detection and Prevention of Communicable Diseases, Personal Hygiene, and First Aid.

Three months' leave of absence was granted Miss S. E. Smith, district nurse at Yeoford, and Miss Girling, P.H.N., was re-appointed to supply at that point, later succeeding Miss Crosbie, who had formerly conducted the classes in Home Nursing in the Schools of Agriculture.

In the month of August, the Government as an experiment requested the Department of Public Health to supply a nurse for the Civil Service employees. Miss Jean Crosbie was detailed for this work, but with

her resignation from the staff November 30th, this service was discontinued. During this period the following calls were made:

Sick Calls	110
Office Consultations	150
Calls in connection with Charity and Relief.....	210

In the month of November the Charity and Relief work for the Province was transferred to the Nursing Branch. We are pleased to report that with the improved conditions the number of applicants for relief is not as great as last year.

DISTRICT NURSES

This service is steadily gaining in favor. Two new districts were organized this year, namely Slave Lake and Pendryl; Miss K. S. Brighty, P.H.N., and Miss Mayson, P.H.N., who were released from our Public Health service were transferred, having had previous experience in district nursing. Conditions in these very remote districts demand exceptional ability and sacrifice on the part of the nurse. At the urgent request of the local Red Cross Society of Rife district, a nurse was replaced there for a period of six months. Miss Helen Anderson, P.H.N., is supplying in this district. The following districts were in operation at the close of 1923:

The district of Griffin Creek is now in its fifth year of operation, and is in charge of Miss M. E. Conlin.

The district of Yeoford, in charge of Miss S. E. Smith, is in its fourth year of operation.

The district of Halcourt, adjacent to the former district of Beaver Lodge, has had the services of Miss O. Wotherston for the past three years.

The district of Rife, in charge of Miss Anderson, has been re-opened for a period of six months.

The district of Slave Lake was opened early in the spring, and is served by Miss J. Mayson, P.H.N.

The district of Pendryl was also opened in the early summer, and is in charge of Miss K. S. Brighty, P.H.N.

SUMMARY OF WORK DONE BY SIX DISTRICT NURSES FOR THE YEAR 1923

Total No. of Calls made	863
Consultations	343
Treatments	605

CLASSIFICATION OF CASES

(a) Medical	421
(b) Surgical	131
(c) Obstetrical	58
Total Number of Deaths	8

A special feature of the work done by the District Nurses during the past year is that of conducting classes in Home Nursing in conjunction with the St. John's Ambulance Association. Each nurse in her district has one or more classes. The success of this phase of the work is due to the earnest efforts of the students, who in many cases have had to ride twenty miles to attend the classes, as well as to the nurse who endeavors to make these classes interesting as well as instructive. The interest manifested in these classes has been very keen, moving pictures dealing with the subject taught were shown. At the conclusion of the course, the students are examined by a medical practitioner, and where found proficient are awarded the St. John's Ambulance certificate.

During the year a number of children requiring medical help and continued treatment have been referred by the Public Health nurses to the Orthopaedic Department of the University Hospital, and the Junior Red Cross Hospital at Calgary, where they received the best of care and attention.

All of which is respectfully submitted.

E. CLARK,
Superintendent, Public Health Nursing Branch.

DR. W. C. LAIDLAW,
Deputy Minister of Health.

Hospitals Branch

SIR,—

I have the honour to submit herewith, a report covering the work of the Hospitals Branch for the year 1923.

Organization of new Municipal Hospitals Districts during the past year has not been particularly active, but the interest of the people was not in any appreciable degree lessened. No less than forty-two meetings were addressed in connection with this work, by officials of this branch. On July 1st, the Grande Prairie Municipal Hospital was placed in operation. The Municipal Hospital District comprising the city of Red Deer, was organized and a vote taken which embodied the taking over of the Red Deer Municipal Hospital, which institution became a Municipal hospital on April 1st.

There are now fifteen municipal hospitals, with a total minimum bed capacity of two hundred and seventy-seven beds.

A review of the services rendered by these institutions from January 1st, 1920, to December 31st, 1923, shows that 21,142 patients have been admitted. During the same period, municipal hospitals took care of 3,012 maternity cases; 3,123 minor operations and 1,470 major operations.

It is gratifying to note the splendid financial position of these institutions at the close of the year. This condition, to some considerable extent was brought about by the collection of current and arrears of taxes, but is, to a very considerable extent, also due to the efficient management of the institutions by the boards and officials working under them. With one exception all the municipal hospitals show, as at December 31st last, a substantial cash balance.

The municipal hospitals, being largely financed from taxes, experienced during the last two or three years similar difficulties common to municipalities, which depend upon the collection of taxes for this revenue. In the Session of 1922, by an amendment to The Municipal Hospitals Act, the board of a hospital district was permitted to issue a debenture for a period of not more than five years in an amount not exceeding fifty per cent. of the arrears of taxes then outstanding. Seven districts availed themselves of the provisions of the Act in this regard. It was recognized that this type of debenture would afford temporary relief by providing immediately funds for the operation of the hospital.

It was also recognized that every precaution must be taken to apply the proceeds from the collection of arrears of taxes, which became the security for this debenture, to the annual payment of the principal and interest, but more particularly to the accumulation of a sufficient amount of money which would provide the necessary funds to retire the debentures at maturity. Consequently, regulations were made which provided that a board must set aside these funds from the collection of arrears of taxes. In one district the debentures in the sum of nine thousand dollars was retired and cancelled in exactly one year from the date on which it was issued. In two other districts sufficient money is in hand to retire the full outstanding balance and in the remainder of the districts, the regulations are being complied with and an effort is being made to buy in a portion of the unpaid debentures. It is, therefore, apparent that all the districts which issued this type of debenture will be in a position

in less than two years from the date of the same to take care of the annual payment of principal and interest and hold in trust account, or in investments approved by the Minister, sufficient liquid assets to retire in full the outstanding balance of the debentures, if the same can be procured from the purchasers.

Attached to this report will be found an analysis of hospital services and expenditures, excluding Bank interest and debenture principal and interest, and an analysis of daily cost.

It will be found that in fourteen hospitals, the Lloydminster Hospital being excepted, as this institution is not operated under the supervision of the Minister, that the hospital days are shown as 67,941, with a total expenditure of \$212,417.28, giving an average cost per patient day of \$3.126 for 1923.

For the period January 1st, 1920, to December 31st, 1923, the 21,142 patients admitted to the municipal hospitals received treatment covering all types of cases, at approximately fifteen dollars per patient. This service to the same number of people, if obtained in the large institutions in the cities of this Province, would have cost approximately forty-five dollars per patient. It is, therefore, very apparent the great saving which has been effected through the service made available by Municipal Hospitals.

It is fully expected that early in the new year steps will be taken by the Senate of the University of Alberta to provide for the training of nurses in the municipal hospitals by affiliation with the University Hospital.

The new year shows every indication that hospital organization will be as active as in any year since The Municipal Hospitals Act was placed upon the Statutes of this Province.

Respectfully submitted.

A. K. WHISTON,
Supervisor of Organization.

DR. W. C. LAIDLAW,
Deputy Minister of Health.

DEPARTMENT OF PUBLIC HEALTH—HOSPITALS BRANCH
MUNICIPAL HOSPITALS

Year	No. of Hospitals	No. of Beds	Patients Admitted	Hospital Days	Maternity Cases	Minor Operations	Major Operations
1920	8	160	2,439	29,585	444	424	150
1921	9	182	3,411	39,995	645	688	345
1922	13	237	5,003	60,717	856	784	354
1923	15	277	6,289	67,941	1,067	1,227	621
Total.....	45	856	21,142	198,238	3,012	3,123	1,470

1919	1920	1921	1922	1923
Mannville	Mannville	High River	Provost	Grande Prairie
Cardston	Vermilion	— 1 1/2 months	Viking	Red Deer
Onoway	Drumheller	— 12 months	Hanna	— 6 months
	Cardston	— 10 months	Athabasca	— 9 months
	Islay	— 5 1/2 months		
	Lloydminster	— 12 months		
	Onoway	— 8 1/2 months		
	Bassano	— 12 months		
		— 12 months		

DEPARTMENT OF PUBLIC HEALTH—HOSPITALS BRANCH

Municipal Hospitals—January 1-December 31, 1923

DISTRIBUTION OF HOSPITAL SERVICES

No. of District	Name	No. of Beds	Hospital Days	No. of Patients	Medical Cases	Surgical Cases	Maternity Cases	Babies born	Minor Operations	Major Operations
1	Mannville	10	2,409	255	83	93	39	40	66	23
2	Vermilion	18	3,947	388	143	81	85	79	59	22
3	Drumheller	42	14,826	1,402	318	666	208	210	270	108
4	Islay	12	2,812	221	76	39	53	53	30	9
5	Cardston	16	5,880	595	147	228	121	99	199	29
6	Bassano	22	4,826	368	116	128	62	62	74	48
7	Onoway	10	1,312	144	82	14	26	22	4	2
8	*Lloydminster	34	6,377	357	88	139	66	64	72	39*
9	Hanna	22	4,600	478	158	143	92	85	75	36
10	Viking	13	3,409	266	100	56	59	51	37	11
11	High River	18	7,321	707	151	345	105	106	180	84
12	Provost	10	4,021	366	128	115	62	61	46	33
13	Athabasca	10	2,045	253	98	76	40	39	15	4
14	Grande Prairie	20	1,828	157	31	67	27	32	39	57
15	Red Deer	20	2,828	332	76	212	22	22	61	116

NOTE: Grande Prairie, July 1 to December 31.
Red Deer, April 1 to December 31.

*Alberta patients only.

DEPARTMENT OF PUBLIC HEALTH — HOSPITALS BRANCH

January 1st to December 31st, 1923, Expenditures (Excluding Bank Interest, Debiture Principal and Interest) With Analysis of Daily Cost

Name	Beds	Hospital Days	Administration Expenses	Cost per Day	Prof. Care Patients	Cost per Day	General Supplies	Cost per Day	Gen. House and Property	Cost per Day	Total Expenditures	Total Cost Per Day
Mannville	10	2409	\$ 769.01	.319	\$ 4,543.45	1.886	\$ 1,413.47	.586	\$ 2,525.90	1.048	\$ 9,251.83	3.840
Vermilion	18	3947	1,845.84	.468	6,364.07	1.612	2,623.86	.665	2,644.07	.669	13,477.84	3.414
Drumheller	42	14826	5,866.32	.396	19,640.16	1.325	10,236.39	.690	7,528.12	.508	43,370.99	2.925
Islay	12	2812	914.52	.325	4,863.64	1.729	1,986.59	.696	1,801.07	.640	9,535.82	3.391
Cardston	16	5880	1,174.79	.199	11,620.91	1.976	5,151.30	.876	2,185.30	.372	20,132.30	3.423
Bassano	22	4326	1,473.62	.340	6,663.26	1.540	2,741.50	.634	2,852.23	.659	13,730.61	3.173
Onoway	10	1312	530.99	.404	5,263.31	4.011	1,069.09	.815	1,280.07	.975	8,143.46	6.206
Hanna	22	4600	2,918.76	.635	9,073.76	1.973	2,952.55	.642	3,641.75	.792	18,586.82	4.040
Viking	13	3409	2,002.42	.587	6,273.96	1.840	1,987.74	.583	1,615.63	.474	11,879.75	3.484
High River	18	7321	1,256.40	.172	11,427.21	1.561	4,454.59	.608	6,137.25	.838	23,275.45	3.179
Provost	10	4021	1,241.75	.309	7,980.20	1.985	2,566.15	.638	2,788.08	.693	14,576.18	3.625
Athabasca	10	2045	1,284.88	.628	4,516.28	2.208	1,269.30	.620	746.26	.364	7,816.72	3.822
Grande Prairie	20	1828	854.49	.467	3,958.04	2.165	1,232.06	.674	1,369.16	.749	7,413.75	4.055
Red Deer	20	2828	795.12	.281	4,925.22	1.741	1,589.41	.562	3,916.01	1.384	11,225.76	3.969

Note: Grande Prairie, July 1st to December 31st.
 Red Deer, April 1st to December 31st.

APPROVED HOSPITALS

At the first of the year this Branch took over the supervision of Government grant, which, for the year amounted to \$267,874.78, and an analysis will be found attached to this report showing the hospital days; number of patients, and Government grant earned by all approved hospitals for the years 1922 and 1923.

It has not been possible to fully complete this analysis, due entirely to the manner in which returns have been made to the Department. The forms authorized are simple, yet concise, but it has been found in several instances impossible to even check the details as submitted, and when the forms have been forwarded to the hospital for correction have frequently been returned to the Department with even greater inaccuracies than when first received. Correspondence from this Department has, in a great many cases, been lightly regarded. Letters addressed to secretaries have been replied to by superintendents, or *vice versa*, and it has been found that information furnished by one official is contradicted by the other.

Financial returns which are intended to accompany the declaration often fail to reach the Department, and, in consequence, the grant is held up.

Every month a memorandum is forwarded from the Department noting corrections, with the request that these corrections be made on the books of the hospital; yet, when the final returns are forwarded for the each six months' period, it is frequently found that the hospital days on the declaration do not agree with the days shown on the monthly returns, and the hospital days on the financial return are different from the other two, and cooperation is, therefore, solicited in giving careful attention to correspondence from the Department with respect to monthly corrections and the preparing and forwarding of all returns promptly and correctly.

Eight municipalities made agreements or contracts with approved hospitals for the care and treatment of their indigent sick during the past year, as shown on the schedule attached hereto.

At the invitation of the mayor of the city of Calgary, and with the consent of the Minister, an investigation was conducted into the financial operation of the Calgary Hospitals system for the years 1918 to 1922 inclusive, and a report made in connection with the same.

1923

AGREEMENTS AND CONTRACTS BETWEEN MUNICIPALITIES AND
HOSPITALS

Municipality	Hospital	Date of Contract.
City of Wetaskiwin	Wetaskiwin City Hospital	May 9th, 1923.
Municipal District No. 458	Wetaskiwin City Hospital	May 9th, 1923.
Municipal District No. 459	Wetaskiwin City Hospital	June 9th, 1923.
Municipal District No. 244	Hanna Municipal Hospital	June 1st, 1923.
Municipal District No. 396	Dr. Creighton's Hospital	April 16th, 1923.
Town of Didsbury	Didsbury General Hospital	Annual Contract.
Municipal District No. 310	Didsbury General Hospital	Annual Contract.
Municipal District No. 311	Didsbury General Hospital	Annual Contract.

APPROVED HOSPITALS—HOSPITAL DAYS AND GOVERNMENT GRANT

Hospital	1922			1923		
	Hospital Days	Number of Patients	Government Grant	Hospital Days	Number of Patients	Government Grant
Altario Red Cross	1,609	132	\$ 804.50	831	114	\$ 415.50
Athabasca Municipal	1,980		990.00	2,045	253	1,022.50
Bassano Municipal	4,963	507	2,481.50	4,326	368	2,163.00
Bethel Sanitarium	3,261	183	1,630.50	2,291	160	1,145.50
Big Valley General	700		350.00	642	68	322.00
Bonnyville General	1,865	617	932.50	923	222	461.50
Bonnyville St. Louis				689	62	344.50
Calgary General	65,555	6,327	32,777.50	55,048	5,842	27,524.00
Calgary Isolation				13,673	595	6,836.50
Calgary Holy Cross	47,158	3,706	23,579.00	41,687		20,843.50
Calgary Mt. View	5,673		2,836.50	326	9	163.00
Calgary Smallpox	160	9	80.00	32	3	11.00
Calgary Salvation Army				1,327	80	663.50
Camrose General	4,712		23,560.00	3,056	385	1,528.50
Cardston Municipal	4,853	719	2,426.50	5,880	595	2,940.00
Castor, Rosary	5,341	513	2,670.50	4,993		2,496.50
Cereal Cottage Hospital	1,961	197	980.50	662	65	331.00
Claresholm General	1,501	107	750.50	1,680		840.00
Consort Red Cross	2,243	193	1,121.50	1,519		759.50
Coronation General	3,203	245	1,601.00	2,539	227	1,269.50
Daysland Providence	3,903	399	1,951.50	3,572	319	1,786.00
Didsbury General	2,134		1,067.00	1,781		890.50
Drunheller Municipal	15,396	1,351	7,698.00	14,826	1,402	7,413.00
Edmonton General	44,019	2,840	22,009.50	40,039	2,835	20,019.50
Edmonton Isolation	13,020		6,510.00	12,553	443	6,276.50
Edmonton Misericordia	23,220	1,459	11,610.00	20,649	1,320	10,324.50
Edmonton Royal Alexandra	66,120	4,245	33,059.00	62,569	4,450	31,284.50
Edmonton Beulah Home	1,312	121	731.00	1,851	121	925.50
Empress Cottage Hospital	1,852	168	926.00	2,480	237	1,240.00
Foremost Red Cross	1,231	140	615.50	563	82	281.50
Ft. Vermilion General	231		115.50			

Grande Prairie Municipal	2,953	301	1,476.50	3,094	157	1,547.00
Grouard, St. Joseph's	2,111	.....	1,055.50	1,613	63	806.50
Gleichen General	.....	.....	.....	653	81	326.50
Hanna Municipal	4,130	404	2,061.00	4,600	478	2,300.00
High River Municipal	7,250	639	3,625.00	7,321	707	3,660.50
Innisfail General	4,087	558	2,043.50	3,888	709	1,944.00
Islay Municipal	2,463	238	1,231.50	2,812	221	1,406.00
Lacombe General	2,423	300	1,211.50	2,010	285	1,005.00
Lamont Public	18,703	2,412	9,351.50	14,169	.....	7,084.50
Lethbridge Isolation	967	49	483.50	745	.....	372.50
Lethbridge, Galt Hospital	21,447	1,527	10,723.50	19,149	1,527	9,574.50
Lloydminster Municipal	3,441	346	3,220.50	6,377	357	3,188.50
Macleod General	13,659	450	6,829.50	13,607	214	7,803.50
Mannville Municipal	2,517	.....	1,258.50	2,409	253	1,204.50
Medicine Hat General	23,841	2,979	11,920.50	20,186	1,922	10,093.00
Onoway Municipal	986	105	493.00	1,312	144	656.00
Oyen General	1,697	.....	848.50	883	151	441.50
Peace River, Irene Cottage	2,126	169	1,063.00	842	110	421.00
Provost Municipal	4,344	313	2,172.00	4,021	366	2,010.50
Red Deer Municipal	.....	.....	.....	2,828	332	1,414.00
Rockyford General	.....	.....	.....	482	50	241.00
Smoky Lake, Geo. McDougall's	.....	.....	.....	1,307	166	653.50
Spirit River General	523	51	272.50	788	52	394.00
Stettler, Dr. Creighton's	841	113	420.50	967	.....	483.50
Trochu General	2,375	183	1,187.50	2,177	172	1,088.50
University Hospital (Civillian)	.....	.....	.....	15,604	491	7,802.00
Vegreville General	7,535	705	3,774.55	6,189	506	3,094.50
Vegreville, R. M. Boswell's	3,425	336	1,712.50	3,071	373	1,535.50
Vermilion Municipal	5,206	412	2,603.00	3,947	388	1,973.50
Viking Municipal	2,619	198	1,309.50	3,409	266	1,704.50
Wetaskiwin, City Hospital	3,079	315	1,539.50	2,997	390	1,500.00
University, (Orthopaedic)	.....	.....	.....	3,530	.....	3,227.50
University, (S.C.R.)	.....	.....	.....	34,495	.....	17,247.50

Central Alberta Sanatorium

This Branch took over, during the year, the supervision of the collection of accounts covering the maintenance of tuberculosis patients, and the cooperation of the officials of municipalities responsible for the maintenance of this type of patient has been very deeply appreciated, and it is anticipated that the councils of municipalities will arrange that these accounts which are rendered monthly will be paid on a monthly basis, and the moneys remitted to the Department promptly.

CENTRAL ALBERTA SANATORIUM

CIVILIAN PATIENTS

Patients in Sanatorium, January 1, 1923.....	85
“ admitted during 1923	109
“ treated during 1923	194
“ discharged during 1923	77
“ died during 1923	24
“ remaining in Sanatorium, December 31, 1923.....	93
Ex-soldiers in Sanatorium, December 31, 1923	35
Total number of beds available	181
Number of infirmary beds	85

Of the 101 patients discharged or died during 1923, four were transferred to the Department of S. C. R. to be treated as ex-soldiers. The remaining 97 were classed on admission and discharge as follows:

ON ADMISSION

Not Tuberculosis—

Asthma	1
Debility	2
Empyema	1
Indefinite Pulmonary Fibrosis	1
New Growths	1
Non-tuberculous Lung Infection	1
Pleurisy	1
Valvular Disease of the Heart	3
—	11

Doubtfully Tuberculosis	9
-------------------------------	---

Tuberculosis not Pulmonary—

Tuberculosis Peritonitis	3
Tuberculosis Mediastinitis	2
—	5

Tuberculosis Pulmonary—

Miliary	1
Minimal	8
Incipient	2
Moderately Advanced	22
Far Advanced	32
Hopeless	7
—	72

Total..... 97

ON DISCHARGE

Not Tuberculosis—

Untreated	5
Improved	4
Unimproved	1
Died	1
—	11

Doubtfully Tuberculosis—		
Untreated	3	
Quiescent	1	
Improved	4	
Unimproved	1	
	—	9
Tuberculosis—Not Pulmonary—		
Apparently Cured	1	
Improved	3	
Died	1	
	—	5
Tuberculosis—Pulmonary—		
Untreated	5	
Apparently Arrested	8	
Quiescent	19	
Improved	6	
Unimproved	12	
Died	22	
	—	72
	Total.....	97

NOTE.—Patients remaining under treatment less than one month are considered "Untreated."

A. H. BAKER, M.D.,
Medical Superintendent.

Report of the Director of the Division of Venereal Diseases

SIR,—

I beg to submit herewith the Fourth Annual Report of the Division of Venereal Diseases.

Great strides have been made in the last few years in the education of the people regarding venereal diseases. The diagnosis and treatment have become so scientific of late, that those diseased, if properly looked after, can be cured. Such increased progress has been made in the education of the people along these lines that instead of concealing their disease they report for examination, as they feel they can be cured.

In this Province the Division of Venereal Diseases is well organized, and doing as well and as good work here as in any other province similarly situated.

The work of the division is being carried on as follows:

1. *Treatment of the Infected.*—Every person suffering from a venereal disease is required by regulations to place himself under treatment by a regularly qualified medical practitioner. Clinics for the diagnosis and treatment of these diseases are now established in Edmonton, Calgary, Medicine Hat and Lethbridge. These clinics are undoubtedly fulfilling a very useful purpose, many of our cases having neglected to receive treatment for years. It is particularly encouraging to note the readiness with which syphilitics are applying for treatment. The fact that syphilis is a painless and an insidious disease, has in the past been responsible for a large number of untreated persons passing gradually into a fatal stage of the disease. This is now being counteracted by publicity and education. Also the fact that the mere cessation of the discharge in gonorrhoea does not constitute a cure, and that cure can only be proven when various blood and microscopic examinations have been made. So that many persons who thought they were non-infectious have been proven infectious, and the idea has been driven home that a patient who wishes to make sure he is cured, must have an examination by a qualified medical practitioner.

During the year this division had 318 cases of syphilis and 496 cases of gonorrhoea under active treatment. Approximately 500 examinations of persons in the provincial jail were made. If the diseased prisoner at the expiration of his sentence is still in the infectious stage of syphilis or gonorrhoea he is detained and treatment is continued until he becomes non-infectious. On the other hand, if at the expiration of his sentence, he is non-infectious, but not yet cured of the disease, he is discharged from jail and instructed to report at one of the clinics for further treatment. With the exception of a few, whom we have been unable to trace, these people have been quite regular in their attendance.

2. *Education of the Infected.*—All persons coming under treatment are instructed both verbally and by pamphlet as to the precautions to be taken against the spread of the disease and the results to be expected if treatment is neglected. The medical practitioners in the Province have been furnished with instruction cards to distribute to all infected patients coming under their treatment.

3. *Education of the Non-infected.*—Extracts from the latest articles, suitable for distribution, have been prepared and have been widely circulated, and several requests from various organizations have been received for the use of moving pictures dealing with Social Hygiene, and such requests were fulfilled. The Canadian Public Health Association met here last June. The majority of visiting men were very favorably impressed with the progress of the work of this Division of the Public Health Department. Mrs. Pankhurst addressed an extremely large general meeting and rendered very efficient help in educating the general public in the different phases of venereal disease, and we consider a great deal of good was done. All the meetings were very largely attended, and the month following many cases came to the Edmonton Clinic of their own accord for examination and quite a few were found to be infectious and not cured, when they considered themselves to be the opposite.
4. *Police Court Cases.*—Forty-two police court cases were examined for venereal diseases. These examinations were made largely at the instance of the lady magistrates, who have taken a keen interest in the venereal diseases prevention work.

The figures following indicate briefly the work carried out by the Division during the year:—

EDMONTON CLINIC, 330 Tegner Building

Number of patients	781
Sexes of patients—	
Male	601
Female	173
Children—	
Male	3
Female	4

CLASSIFICATION OF THEIR DISEASES

	Syphilis	Gonorrhoea	Chancroid	No. Diagnosis of V. D.
Male	120	273	.....	208
Female	33	31	.....	109
Children—				
Male	2	.....	.....	2
Female	1	.....	.....	2

Number and results of Wassermann tests: 875 tests, of which 183 were positive.

CALGARY CLINIC, 500 Maclean Building

Number of patients	81
Sexes of patients—	
Male	57
Female	27

CLASSIFICATION OF THEIR DISEASES

	Syphilis	Gonorrhoea	Chancroid	No. Diagnosis of V. D.
Male	30	24	.....	3
Female	17	6	.....	3

Number and results of Wassermann tests: 85 tests, of which 31 were positive.

DEPARTMENT OF PUBLIC HEALTH

FORT SASKATCHEWAN JAIL

Number of patients	174
Sexes of patients—	
Male	139
Female	35

CLASSIFICATION OF THEIR DISEASES

	Syphilis	Gonorrhoea	Chancroid	No. Diagnosis of V. D.
Male	17	11	.....	110
Female	13	8	.....	14

Number and results of Wassermann tests: 270 tests, of which 37 were positive.

LETHBRIDGE JAIL

Number of patients	41
Sexes of patients—	
Male	36
Female	5

CLASSIFICATION OF THEIR DISEASES

	Syphilis	Gonorrhoea	Chancroid	No. Diagnosis of V. D.
Male	29	7	.....	.....
Female	3	2	.....	.....

Number and results of Wassermann tests: 252 tests, of which 32 were positive.

MEDICINE HAT CLINIC

Number of patients	26
Sexes of patients—	
Male	18
Female	5
Children—	
Male	1
Female	2

CLASSIFICATION OF THEIR DISEASES

	Syphilis	Gonorrhoea	Chancroid	No. Diagnosis of V. D.
Male	10	8	.....	1
Female	4	.....	.....	.....
Children—				
Male .....	.....	.....	.....	1
Female .....	.....	.....	.....	2

Number and results of Wassermann tests: 104 tests, of which 20 were positive.

CASES REPORTED BY DOCTORS IN PROVINCE

	Syphilis	Gonorrhoea	Chancroid	No. Diagnosis of V. D.
Male	36	110	7	.....
Female	9	15	.....	.....

RECAPITULATION

	Syphilis	Gonorrhoea	Chancroid	Non-Venereal
Male	238	433	7	325
Female	80	63	.....	120
	<hr/> 318	<hr/> 496	<hr/> 7	<hr/> 445

Total, 1266.

Respectfully submitted.

E. C. SMITH, M.D.,
Director, Division of Venereal Diseases,
Provincial Dept. of Health.

DR. W. C. LAIDLAW,
Deputy Minister of Health.

Provincial Mental Hospital, Ponoka, Alberta

SIR,—

I have the honour to submit herewith the Report for the year ending 31st December, 1923, being the Thirteenth Annual Report of the Provincial Mental Hospital, Ponoka.

On the first day of January, 1923, there were in residence 812 patients, 512 males and 300 females. At the close of the year there were 897 patients, 563 males and 334 females, an apparent increase of 85. The actual increase was 33, as 52 male patients were transferred from the Hospital for Returned Soldiers, Red Deer, shortly before the Mental Hospital at Oliver was opened.

The admissions were 138 males and 110 females, a total of 248.

The discharges were 146, as follows:—

	Male	Female	Total
Recovered	43	41	84
Improved	30	17	47
Not Improved	9	3	12
Not Insane	2	1	3
Total	84	62	146

The above discharges include 15 deportations, as follows:—

	Male	Female	Total
Denmark	1	1	1
England	3	.....	3
France	1	.....	1
Ireland	1	.....	1
United States	6	3	9
Total	11	4	15

Three men (two of whom are feeble-minded) were transferred in July to the Provincial Training School at Red Deer. One man was returned to Fort Saskatchewan Gaol. Five men (medico-legal cases) were admitted for observation and were disposed of in various ways.

During the year 70 males and 57 females, a total of 127, were sent out on probation, and 3 males and 4 females were returned.

The recovery rate, based on the admissions for the year, is in the case of the males 31.15 per cent, and in that of the females 37.27 per cent. The recovery rate, therefore, is for both sexes 33.87 per cent.

The total discharges amount to 58.87 per cent of the admissions.

The deaths were 67, viz:—50 males and 17 females. The death rate, based on the total number under treatment, is for the males 7.69 per cent, and for the females 4.14 per cent, or for both sexes 6.32 per cent.

The health of the staff and patients has been on the whole good. There were two cases each of diphtheria and erysipelas, and a small outbreak of influenza occurred early in the Spring. It is a gratifying fact that no case of ulcerative colitis (asylum dysentery) has occurred for many years. Among the deaths there were four from influenza and broncho-pneumonia, three from pulmonary tuberculosis, and general paralysis claimed eight victims.

As in previous years the psychoses dementia praecox and manic-depressive insanity together constitute the majority of the admissions, being about 29 per cent and 23 per cent respectively. General paralysis contributes about 7 per cent of the admissions, epilepsy 6 per cent and alcoholic 4 per cent.

The more important causes of the various mental disorders are heredity 48 per cent, alcoholic heredity 12 per cent, alcoholism 4 per cent, syphilis over 7 per cent, epilepsy, senility and prolonged mental distress.

The occupations which figure most prominently are farming 47 per cent and labouring 27 per cent of the male admissions. Housewives contribute over 62 per cent of the female admissions.

The dental department under Dr. Budd continues to do useful work, and, ever mindful of the part played by focal infections, examination and treatment of the teeth constitute an important part of our routine.

Dr. T. C. Smith, Assistant Medical Superintendent, resigned on September 15th, and returned to the East with his family. He was succeeded by Dr. D. L. McCullough, Senior Medical Officer.

Miss Corinne Dingman, who inaugurated the Occupational Therapy Department, resigned on October 31st. Cheerful and painstaking, she gained many friends and was well liked by the patients. Her work is being successfully carried on by three teachers who were trained by her.

Another bazaar was held in December in the new dining room, which was well attended, and proved a great success. A ready sale was found for the articles made in the Occupational Department and in the wards, and it is proposed to make this an annual affair.

From year to year the work of the laundry increases and on an average 13,300 articles pass through the wash each week. Six years ago the weekly average was only 4,500. More room and some additional machinery are urgently needed in the ironing room, a matter which was dealt with in the report for 1922.

The sewing room has been kept fully occupied in providing not only our own requirements in sheets, pillow cases, aprons and dresses, etc., but also the sheets and pillow cases for the Hospitals at Oliver and Red Deer. Altogether 9,718 articles were turned out; workers on the wards contributing over 20 per cent.

The following were completed during the year: A new unit to accommodate 160 male patients; a doctor's residence; a double cottage for married employees; an incinerator close to the power house; a deep well near the reservoir; a root-house on the site of the old cow barn.

The remodelling of the sewage disposal plant is nearing completion, and the activated sludge system being installed is yielding excellent results. The effluent is clear, free from offensive odour and contains a minimum of suspended matter.

During the summer every advantage was taken of the favourable weather to improve the grounds in front of the Hospital. The main drive was completed, the ground around the Nurses' Home terraced and new flower beds and borders designed. There was a profusion of colour and bloom during August, the antirrhinums, poppies and nemesia being especially pleasing.

The work in the greenhouse has been satisfactory in spite of the limited space at the disposal of the gardener, and in addition to the requirements of the flower and vegetable gardens, the wards have been kept supplied with a variety of plants and cut flowers.

Owing to the abundant rainfall there was a good crop of vegetables of all kinds. The present site for the vegetable garden is altogether undesirable; the soil is sandy and exhausted of fibre and organic matter and drifts so easily when the wind blows that it is impossible to keep the wards and dormitories in the buildings nearby from being smothered in dust. The obvious solution is to locate the vegetable garden elsewhere, preferably on the old site west of the farm buildings, sow the whole area in grass and use it as a recreation field for the patients.

In common with the rest of the Province the farm crop was exceptional. Oats averaged 93.5 bushels to the acre, and a 35 acre field of barley yielded 55 bushels to the acre. There was an abundant crop of sunflowers and the field corn was the best ever seen in this district. The clearing of brush was carried on throughout the summer and 48 acres of new land on the half-section east of the barn were broken and worked down. Approximately 70 cows are being milked, and about 130 gallons of milk are being supplied to the Hospital daily. The barn well has so far yielded an abundant supply of water, but the pump is too small and there is need of a larger storage tank to assure a steady supply of water to the stock, the proposed dormitory building for working patients and in case of fire.

On an average 170 eggs are brought in from the Poultry Farm each day. This number is considerably below our requirements, but should increase as the flock of Leghorns now consists of 295 laying hens and 492 pullets.

RECOMMENDATIONS

The following recommendations have been fully dealt with either in the body of this Report or in the Report of 1922:—

1. The need for a recreation hall.
2. Increased laundry accommodation.
3. More cottages for married employees.
4. Additional greenhouse.
5. An onion store.
6. A larger water tank for the barns.

The whole respectfully submitted.

I have the honour to be, Sir,

Your obedient servant,

E. H. COOKE,

Medical Superintendent.

DR. W. C. LAIDLAW,

Deputy Minister of Health.

TABLE No. 1
Showing the number of Admissions, Discharges and Deaths during 1923

Month	ADMISSIONS			DISCHARGES			DEATHS		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
January	11	13	24	2	2	4	2	1	3
February	5	6	11	1	3	4	6	.....	6
March	15	11	26	8	5	13	9	3	12
April	18	3	21	6	6	12	2	4	6
May	13	10	23	4	4	8	2	1	3
June	11	10	21	10	7	17	1	1	2
July	15	13	28	12	4	16	3	—	3
August	15	13	28	9	6	15	5	1	6
September	9	6	15	8	7	15	5	2	7
October	5	10	15	4	8	12	7	2	9
November	5	8	13	10	4	14	5	1	6
December	16	7	23	10	6	16	3	1	4
Total	138	110	248	84	62	146	50	17	67

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TABLE No. 2

Showing the civil state of patients admitted during 1923

Civil State	Male	Female	Total
Single	87	34	121
Married	41	69	110
Widowed	9	7	16
Divorced	1	—	1
Total	138	110	248

TABLE No. 3

Showing the religious denominations of those admitted during 1923

Religious Denomination	Male	Female	Total
Anglican	31	18	49
Baptist	6	5	11
Christian Church	—	1	1
Confucian	3	—	3
Congregational	1	—	1
Greek Orthodox	10	10	20
Latter Day Saints	1	1	2
Lutheran	15	17	32
Mennonite	1	—	1
Methodist	21	10	31
Mormon	—	2	2
Other Protestants	—	1	1
Presbyterian	23	21	44
Roman Catholic	26	21	47
Seventh Day Adventist	—	3	3
Total	138	110	248

TABLE No. 4

Showing the degree of education of those admitted during 1923

Degree of Education	Male	Female	Total
Superior	3	5	8
Common School	130	98	228
None	5	7	12
Total	138	110	248

TABLE No. 5

Showing the nationality of those admitted during 1923

Nationality	Male	Female	Total
Austria	4	4	8
Belgium	1	1	2
Canada	43	30	73
China	3	—	3
Denmark	2	—	2
England	26	16	42
Finland	—	3	3
France	2	1	3
Galicia	2	—	2
Germany	5	—	5
Holland	2	—	2
Italy	1	—	1
Ireland	3	3	6
Jugo-Slavia	1	—	1
Newfoundland	—	2	2
Norway	2	1	3
Poland	1	3	4
Roumania	2	2	4
Russia	6	7	13
Sweden	3	2	5
Serbia	1	—	1
Scotland	2	7	9
United States	24	28	52
Wales	2	—	2
Total	138	110	248

TABLE No. 6

Showing the occupation of those admitted during 1923

Occupation	Male	Female	Total
Bartender	1	—	1
Butcher	1	—	1
Boarding House Keeper	—	2	2
Carpenter	3	—	3
Cashier	1	—	1
Carman	1	—	1
Charwoman	—	1	1
Clerk	1	2	3
Cook	3	—	3
Dairyman	1	—	1
Drayman	1	—	1
Decorator	1	—	1
Farmer	65	—	65
Home	1	11	12
Hospital Orderly	1	—	1
Housekeeper	—	5	5
Housewife	—	69	69
Laborer	38	—	38
Land Inspector	1	—	1
Laundress	—	1	1
Maid	—	4	4
Merchant	1	—	1
Mechanic	1	—	1
Miner	5	—	5
Music Teacher	—	1	1
None	2	6	8
Nurse	—	2	2
Painter	1	—	1
Prostitute	—	1	1
Plumber	1	—	1
Stenographer	—	1	1
Seamstress	—	2	2
School boy	1	—	1
School Teacher	—	2	2
Student	2	—	2
Telegraphist	1	—	1
Vulcaniser	2	—	2
Well Driller	1	—	1
Total	138	110	248

TABLE No. 7

Showing the ages of those admitted during 1923

Ages	Male	Female	Total
10 to 15	1	—	1
15 to 20	5	3	8
20 to 25	12	12	24
25 to 30	14	20	34
30 to 35	15	19	34
35 to 40	26	12	38
40 to 45	22	16	38
45 to 50	11	9	20
50 to 55	11	5	16
55 to 60	5	5	10
60 to 65	6	2	8
65 to 70	2	1	3
70 to 75	3	2	5
75 to 80	2	4	6
80 to 85	3	—	3
Total	138	110	248

TABLE No. 8

Showing statistics of heredity in those admitted during 1923

Heredity	Male	Female	Total
Paternal Branch	29	15	44
Maternal Branch	15	13	28
Paternal or Maternal	19	30	49
Said not to be Heredity	60	36	96
History Insufficient	15	16	31
Total	138	110	248

TABLE No. 9

Showing the alleged cause of the attack of insanity 1923

Alleged Causes	Male	Female	Total
Active Service	2	—	2
Alcohol	10	—	10
Cardio-vascular Degeneration	4	1	5
Child-bearing	—	2	2
Child-birth	—	5	5
Chronic Interstitial Nephritis	—	1	1
Constitutional Psychopathic Inferiority	2	—	2
Epilepsy	8	7	15
Exophthalmic Goitre	—	4	4
Haemorrhage	—	1	1
Heredity	36	51	87
Heredity, Alcoholic	21	9	30
Heredity, Epileptic	2	—	2
Heredity, Suspected	17	21	38
Ill-health	5	—	5
Influenza	3	—	3
Isolation	3	—	3
Injury to head	1	1	2
Lactation	—	1	1
Lympho-sarcoma	1	—	1
Mental Deficiency	—	4	4
Mental Stress, prolonged	6	10	16
Mental Stress, sudden	2	2	4
Menopause	—	2	2
Miscarriage	—	1	1
Not Known	19	7	26
Operation	2	1	3
Overstudy	—	1	1
Overwork	4	2	6
Rheumatic Fever	—	1	1
Senility	6	5	11
Syphilis	14	5	19
Tuberculosis-pulmonary	1	—	1
Tuberculosis-spine	1	—	1

TABLE No. 10

Showing the form of mental disorder in those admitted during 1923

Form of Disorder	Male	Female	Total
1. TRAUMATIC PSYCHOSES:			
(a) Post-traumatic Enfeeblement	1	—	1
2. SENILE PSYCHOSES:			
(a) Simple deterioration	2	4	6
(b) Presbyophrenic type	1	—	1
(c) Delirious and confused states	1	—	1
(d) Depressed and agitated states with deterioration	2	—	2
(e) Paranoid types	3	—	3
3. PSYCHOSES WITH CEREBRAL ARTERIOSCLEROSIS	2	1	3
4. GENERAL PARALYSIS	13	5	18
5. ALCOHOLIC PSYCHOSES:			
(a) Acute Hallucinosiis	4	—	4
(b) Chronic Hallucinosiis	1	—	1
(c) Acute Paranoid type	1	—	1
(d) Chronic Paranoid type	2	—	2
(e) Alcoholic Deterioration	2	—	2
6. PSYCHOSIS DUE TO DRUGS AND EXOGENOUS TOXINS:			
(a) Opium	1	—	1
7. PSYCHOSES WITH OTHER SOMATIC DISEASES:			
(a) Exhaustion Delirium	3	1	4
(b) Delirium of Unknown Origin	4	3	7
(c) Cardino-renal Disease	—	1	1
(d) Exophthalmic Goitre	—	3	3
(e) Lympho-sarcoma	1	—	1
(f) Rheumatic Fever	—	1	1
(g) Pulmonary Tuberculosis	1	—	1
8. MANIC DEPRESSIVE PSYCHOSES:			
(a) Manic type	16	28	44
(b) Depressive type	8	7	15
9. INVOLUTIONAL MELANCHOLIA	—	1	1
10. DEMENTIA PRAECOX	43	31	74
11. PARANOIA OR PARONIC CONDITIONS	8	9	17
12. EPILEPTIC PSYCHOSES:			
(a) Deterioration	3	4	7
(b) Clouded	4	3	7
(c) Other Conditions— (i) Depressed	1	—	1
13. PSYCHONEUROSES AND NEUROSES:			
(a) Hysterical type	1	2	3
(b) Psychasthenic type	1	1	2
14. PSYCHOSES WITH CONSTITUTIONAL PSYCHOPATHIC INFERIORITY	2	—	2
15. PSYCHOSES WITH MENTAL DEFICIENCY	1	3	4
16. UNDIAGNOSED PSYCHOSES	1	—	1
17. NOT INSANE:			
(a) Mental Deficiency without Psy- chosis	2	1	3
(b) Senility without Psychosis	—	1	1
(c) Violent temper without Psychosis	1	—	1
(d) Not Insane	1	—	1
Total	138	110	248

TABLE No. 11

Showing number allowed out on probation and results in 1922

	Male	Female	Total
Recovered	41	40	81
Improved	23	15	38
Not improved	6	2	8
Returned to Hospital	3	4	7
Still out at close of year	46	31	77

Provincial Mental Institute, Oliver, Alberta

SIR,—

I have the honour to submit herewith the Annual Report for the year 1923, being the First Annual Report for the Provincial Mental Institute, North Edmonton. The usual statistical tables are attached.

As this report is concerned with two institutions, it will be necessary to mention that the first six months deal with the Hospital for Returned Soldiers, Red Deer, and the second six months with the Provincial Mental Institute, North Edmonton.

On the first day of January there were in residence at Red Deer 106 patients. During the year there were 4 discharges on probation, 1 deported, and 2 deaths. At the end of June there were 103 patients in residence at Red Deer. It was at this time that the Hospital for Returned Soldiers lost its identity as a Mental Hospital, and became what is now known as the Provincial Training School for Mental Deficiency. The 103 patients then in residence were disposed of as follows:

Fifty-four transferred to Provincial Mental Hospital, Ponoka; two transferred to Provincial Training School, Red Deer, and forty-seven transferred to Provincial Mental Institute, North Edmonton, to form a nucleus at the official opening of the New Provincial Mental Institute July 1st, 1923.

At the end of the year at Oliver there were in residence 43 patients. A transfer of 90 patients from the Provincial Mental Hospital, Ponoka, early in January is anticipated. This number will complete the capacity for Unit No. 1 now completed and furnished. It is hoped that Unit No. 2 will be ready for occupation during the coming year.

The health of the patients throughout the year has been very good.

The location of the buildings will for the first year or so necessitate considerable pioneer work in clearing brush, breaking and grading, but will no doubt make an ideal location when preliminary work has been accomplished. To this end permanent plans have been laid as far as thought advisable. The staff with the assistance of patients have this year accomplished much work, details of which will be found under Section 5.

During the year a first class laundry building has been completed. This has been equipped with modern machinery and has added very much to general efficiency.

A modern root-house of permanent construction was also completed. This will take care of necessary vegetables until our present population has much increased.

The water supply, though sufficient in quantity at present, must be increased this year. It might also be mentioned that the bacterial content is good, but the chemical content is of such a nature that another source of supply must be considered at an early date.

The per capita cost for the year ending 1923 is 86 cents.

In conclusion, the staff wish to convey their sincere thanks to the various departments for their support and assistance rendered.

I have the honour to be, Sir,

Your obedient servant,

D. L. DICK, M.D.,

Medical Superintendent.

Dr. W. C. LAIDLAW,

Deputy Minister of Health.

TABLE SHOWING TRANSFERS, PROBATIONS, DEPORTATIONS, AND DEATHS
FOR THE YEAR 1923.

Month	Transfers	Probations	Deportations	Deaths
	Male	Male	Male	Male
January	—	—	1	—
March	—	—	—	1
April	—	—	—	1
June :				
To Oliver	47	—	—	—
To Ponoka	54	—	—	—
To Red Deer	2	—	—	—
August	—	1	—	—
October	—	1	—	—
November	—	2	—	—
Total	103	4	1	2

TABLE SHOWING THE NUMBER ALLOWED ON PROBATION AND
RESULTS IN 1923

Discharged, Recovered	3
Improved	1
Unimproved	0
Returned	0
Total	4

IMPROVEMENTS PERFORMED BY GARDENER AND STAFF DURING 1923

Excavation for laundry and concreting of floor and footings. Excavation for root-house 16½ feet by 100 feet and erection of same with concrete and hollow tile. Excavations for water tower columns and pouring concrete in same. Excavation and concreting pump house and heating chamber for water tower. Drain from power house to water tower for steam and water lines. Excavating and concreting tunnel between laundry and power house. Sewer line connection between laundry and main sewer. Excavating and concreting for rear entrance to basement floor of buildings No. 1 and No. 2. Rubbish from disused root-house cleared away and excavation filled in. Old farm house cellar filled in. Dilapidated chicken house and implement shed removed and large quantities of rubbish cleared away. Considerable heavy cut and fill grading around buildings No. 1 and No. 2. A good deal of grading on driveways. Large amount of grading on grounds. Season's ashes removed from power house dump to driveways. Digging holes for power line to septic tank and assistance in erection of poles for same. Old barb-wire fences moved and eight acres of old land in foul condition plowed and well summer-fallowed. Adjacent land on road allowance cleared and ploughed to eradicate weeds and develop clean sod for the future. Temporary barb wire fence erected along road allowance pending mellowing and grading for permanent woven wire fence. Approximately five acres raw land broken which also accounted for some clearing. Several clumps of old willows and poplars cleared in order to foster young healthy stock of native trees suitable for back-ground work.

Hauling about fifty tons farmyard manure. New culvert at entrance to grounds. Drains from buildings No. 1 and No. 2. connected with main sewer to convey water from eaves. Daily delivery of milk from farm and delivery of eggs as required from poultry plant. Cartage of one car of coal to pump house, septic tank, bunk house and staff cottages. Unloading ten cars gravel and two cars cement. Cartage of car load kitchen utensils from Oliver Station to Institute. Frequent trips to Oliver Station for public works material. Hauling poles to power line. Removing two cars of patients' effects, office material, staff furniture, etc. to buildings No. 1 and No. 2 and to staff cottages. Harvesting and transferring two car loads vegetables from Red Deer. Assistance to unload steel for water tower from cars. Unloading four cars steam coal into bunkers at power house. Frequent patient help to tradesmen to assist in labouring, cleaning up, etc. Collecting five hundred young native evergreens and planting in nursery beds. Propagating quantity of perennial and biennial flowering plants.

DEPARTMENT OF PUBLIC HEALTH

SUMMARY 1923

AVERAGE NUMBER OF PATIENTS 74; STAFF 16; SUPERNUMARY 4; TOTAL 94

DEBIT	CREDIT
Subsistence	9,991.37
Laundry and Cleaning	1,342.80
Clothing, Boots, Shoes	1,021.19
Bedding	9.52
Periodicals	25.25
Automobile	406.20
Divine Services	115.00
Tobacco	266.04
Garden and Farm	625.58
Drugs and Medical Supplies	62.69
Office Supplies	199.90
Transportation, Freight, Express	1,075.37
Salaries	15,257.91
Repairs	511.96
Ice	118.66
Funerals	40.00
Stock on Hand Dec. 31st, 1922	3,793.06
	\$34,862.50
Storeroom Stock on Hand Dec. 31st, 1923	\$ 1,765.91
Farm stock on Hand Dec. 31st, 1923	577.20
Drugs and Medical Stock on Hand Dec. 31st, 1923	65.11
Sales:	
Dodge Car	500.00
Groceries	332.58
Farm Produce	861.58
Refunds:	
Board	890.61
Clothing	54.60
Trust Account	300.00
Net Cost 1923	29,514.91
	\$34,862.50

Net Cost Per Capita Per Annum\$ 313.98

Net Cost Per Capita Per Diem86

Provincial Training School, Red Deer, Alberta

SIR.—

I hereby respectfully submit to you the Second Annual Report of the Provincial Training School for Mental Deficiency at Red Deer, for the year ending December 31st, 1923.

	Males	Females	Total
No. Enrolled Dec. 31st, 1922	27	23	50
No. Actually Present, Dec. 31st, 1922	27	23	50
Admissions during the year 1923	30	28	58
Voluntary Admissions	25	25	50
Court Commitments	—	3	3
Transferred from Ponoka (temporary)	5	—	5
Total Number Enrolled during 1923	57	51	108
No. Paroled during 1923	—	1	1
No. Discharged during 1923	—	—	—
Deaths during 1923	—	—	—
No. Enrolled December 31st, 1923	57	50	107
No. Actually Present Dec. 31st, 1923	57	50	107
Wards of the Province			12
Wards of Municipalities			73
Wards of the Department of Municipal Affairs			9
Private Cases			13

With regard to the above general statement respecting our population, I might say that the five cases mentioned as "Transferred from Ponoka" have not really been transferred. Also in connection with the "Private Cases," it is our purpose to eliminate as far as possible all private cases and place responsibility for maintenance upon the respective municipalities.

CASES OF MENTAL DEFICIENCY REPORTED AND ON FILE

	Male	Female	Total
Awaiting Admission:			
Filed during 1923	20	16	36
Filed prior to 1923	30	22	52
	50	38	88

	Male	Female	Total
Mental Defective Suspects:			
Reported during 1923:			
By Public Health Nurses (3 mo.)	3	5	8
By Dept. of Education	24	13	37
By Parents and Others	11	14	25
Reported prior to 1923	121	82	203
	159	114	273

As noted above, we still have a great number of mental defectives in this Province, many of whom will sooner or later become institutional problems. This fact should be seriously considered in conjunction with the immediate need for further increased school accommodation.

The year 1923 may be said to have been a year of distinct progress in the work for the feeble-minded of the Province. However much we may regret the change in plans governing the work, the building which we took over in Red Deer, July 1st, has proven fairly satisfactory, especially for the type of case which forms the bulk of our population.

Many changes were found necessary, however, and alteration and repair have gone on coincident with the admission of new cases. This has made progress and a settled routine difficult, and great credit is due to the Matron and the loyal members of the staff who, in spite of the many difficulties, have worked faithfully in the interests of the children and the institution as a whole.

I wish also to record my appreciation of the hearty co-operation given by the Department of Public Works, and shown by their willingness to meet the wishes of the Superintendent respecting the many changes made.

Renovation is now practically complete and the new year finds us in fairly favourable position for the work of special training which we have in mind.

The grounds, which we found so well cared for, we have endeavored to maintain at the same high standard of beauty. We were also fortunate this year in being able to reap a bountiful harvest of vegetables, etc., from our garden, a report of which is appended along with the financial statement.

Expenditure has been kept down to the lowest point consistent with good service to the children, and the fiscal report herewith appended reflects credit upon our Bursar who has at all times co-operated with the Superintendent in his efforts for economy in institutional management.

Collections for maintenance have, on the whole, been very good, and we look for an even more satisfactory year in 1924. Adherence to the clause in the Act, governing responsibility for maintenance, and the securing of the approval of the municipality concerned, has helped to quite an extent in clearing up this question of maintenance. The necessity of securing the approval of the municipality will, however, work a hardship on those deserving cases living in municipalities which will not acknowledge or which wish to evade financial obligation.

OLD PATIENTS AND NEW ADMISSIONS

Fifty children were transferred from the South Edmonton Home to Red Deer, and fifty-eight new admissions are recorded. Table I, shown below, gives the ages in five-year periods of the new admissions. Table II gives chronological ages in five-year periods for both old and new patients in the School.

TABLE I.—CHRONOLOGICAL AGES OF NEW ADMISSIONS
(Given in Five-year Periods)

	Males	Females	Total
Under 5 years	2	4	6
5 - 10 years	4	5	9
10 - 15 years	14	5	19
15 - 20 years	2	5	7
20 - 25 years	1	2	3
25 - 30 years	2	4	6
30 - 35 years	—	2	2
35 yr. upwards	5	1	6
Totals	30	28	58

TABLE II.—CHRONOLOGICAL AGES OF TOTAL POPULATION
(Given in Five-year Periods)

	Males	Females	Total
Under 5 years	1	3	4
5 - 10 years	9	8	17
10 - 15 years	26	11	37
15 - 20 years	11	19	30
20 - 25 years	3	3	6
25 - 30 years	2	4	6
30 - 35 years	—	1	1
35 years upwards	5	1	6
Totals	57	50	107

The summary of general information (See Tables III (a), III (b) and Table IV) gives much interesting data, especially as regards the birth-place of patients, their residence, the mental status of each patient, the incidence of epilepsy (one sixth of our population) and the probable causes of mental deficiency.

TABLE III (a)—SUMMARY OF INFORMATION — PATIENTS

TOTAL POPULATION	Males	Females	BIRTHPLACE					RESIDENCE		RELIGION				
			Canada	Alberta	Britain	Foreign	Unknown	Urban	Rural	R. Catholic	Gr. Catholic	Protestant	Hebrew	Unknown
107	57	50	82	65	5	16	4	56	51	24	3	73	1	6

TABLE III (b)—SUMMARY OF INFORMATION — PATIENTS (cont.)

TOTAL POPULATION	Males	Females	MENTAL STATUS						EPILEPTIC		Probable Cause of Mental Defect	
			Idiot	Imbecile	Moron	Constitutional Inferior	Psychopathic	M.D. and Psychopathic	Male	Females	Heredity	Other Causes
107	57	50	42	55	7	1	1	1	11	7	70 - 75	30 - 35
											Data very Imperfect	

Table IV shows the family history of probable morbid taint, the nativity of known parents, the incidence of T.B.C., alcohol and syphilis as given in family and personal history, etc. As will be noted, much information is still unobtained and much is unobtainable. Many histories give a clean bill of health to the "family tree" which is somewhat contradicted or brought into question by personal and developmental history, or by observation since admission to the School. The economic status of the families, as noted in Table IV, is rather interesting—about 50 per cent. of the recorded cases being on the border line of competence and incompetence. A higher percentage would likely result if the status of the parents of the eighteen patients recorded as unknown, were known.

TABLE IV.—SUMMARY OF INFORMATION — PARENTS

BIRTHPLACE OF								ECONOMIC STATUS				DISEASE INCIDENCE IN FAMILY HISTORY						
Father				Mother														
Canada	Britain	Foreign	Unknown	Canada	Britain	Foreign	Unknown	Dependent	Marginal	Comfortable	Unknown	Epilepsy	Insanity	Mental Defect	Neuroses	Alcoholism	Syphilis	T. B. C.
25	30	36	16	27	30	35	15	3	51	35	18	5	13	24	0	9	2	3

There is no question that in the large percentage of cases where feeble-mindedness is there will be found decadent stock, and where decadent stock is there the problems of dependency, pauperism, vice and crime are sure to be found presenting themselves as sources of worry and economic loss to the community and to the state.

PAROLE

Of three court commitments, one has been paroled and is now carrying on satisfactorily as a domestic on the staff of the school.

HEALTH

The general health of the children was remarkably good throughout the year. Table V below gives the incidence of disease of the total population and the number of cases affected. The Typhoid and Varicella were both introduced into the School by new admissions.

TABLE V.—DISEASE INCIDENCE — 1923

Disease	Male	Female	Total
Typhoid	1	0	1
Ac. Bronchitis	1	1	2
Br. Pneumonia	1	0	1
Ac. Arthritis	1	0	1
Varicella	8	6	14
Totals	12	7	19
Deaths	0	0	0

Considering the physical defects present in so many of our children, the record of "No Deaths" for the year is rather unique. A high mortality has been conceded—but I think wrongly so—as natural in institutions for mental defectives. Good food, exercise, fresh air and a proper attention to personal hygiene is reflected in this class, as with normal children, in a distinct lowering of mortality. We hope for as good a record in 1924.

DENTAL ATTENTION

Twenty-six cases received dental treatment during the year. Twenty-four extractions were done, and sixteen patients had amalgam or cement fillings put in. Quite a number of new admissions require treatment, and the prospective institutional dentist will be welcomed.

SURGERY

No major surgical work was done.

INSTITUTIONAL PROGRESS

Gymnasiums—Throughout the period of re-adjustment we have at no time lost sight of the main issues of institutional school life, viz., special mental and physical training for each boy and girl admitted. To this end, the gymnasium which previously had been used for dormitory purposes, was put into shape for group physical training, religious services, moving picture shows, and for the holding of social and musical evenings.

Sense Training Room.—A special sense training room has been equipped, and much of the work of the lower grade children will be carried on here. One of our capable attendants has been assigned to this work as instructress, and a schedule of individual and class training has been drawn up to be put into effect during 1924.

Sewing Room.—A Sewing room has been equipped and a seamstress placed in charge. Four machines are now installed. This will take care of the great quantity of repair which is necessary in an institution of this kind, and we hope also to be able to make many articles of everyday wearing apparel, especially for the low grade children.

Rest Room for Girls.—Subnormal children take pleasure and pride in possession just as normal children do, and to encourage this feeling of pride in having things of their own, we have set aside a small room as a living room for the higher grade girls. Here when off duty or in the evenings, they may come to rest, read, sew, look at picture books, play the gramophone, and each one is made to feel that this room belongs to her and is set apart for her convenience and pleasure. They are also permitted all those personal touches which give to a room attractiveness and a home-like appearance.

The boys are not so fortunate, as with them it is more difficult to work out a satisfactory grouping. We are trying for a chronological age grouping at any rate, but space does not permit of much more. The epileptic is a big obstacle in the way of efficient classification here, as he cannot be properly segregated.

A skating rink is now in full swing and parents have been asked to send along skates. Some have complied and for the others, those capable of learning to use them, a supply was kindly donated by local societies.

Gramophones.—All our children enjoy music, and in order to entertain them in this way a gramophone has been installed on each floor.

Moving Pictures.—On Wednesdays and Saturdays, a moving picture show is put on with reels supplied through the Department of Extension of the University of Alberta. We confidently expect the pictures to prove a means of real entertainment and a source of considerable mental stimulus and educational value as well. The nights of the "shows" are eagerly looked forward to by all.

FUTURE NEEDS

It was first estimated that we would be able to accommodate approximately one hundred and fifty patients, an estimate based on our having practically the entire institution for this purpose. Later it was found necessary to utilize considerable of the space for staff purposes, and this has cut down our maximum to not more than one hundred and twenty. With a present population of one hundred and seven, that means that not more than fifteen new cases can be taken in, for bearing in mind the type of cases already admitted, our population is pretty sure to be a more or less stationary one.

The demand for institutional care of urgent cases will continue, however, and a building programme for increased housing facilities should be given serious consideration by the Department. Our immediate needs are as follows.

(1) *Better System of Fire Escape.*—This is urgent, as under the present system loss of life in case of fire would be quite possible.

(2) *Isolation Cottage.*—At present we have no accommodation for the isolation of cases of contagious disease. With the recent outbreak of Varicella it was found necessary to quarantine the entire institution. This could be avoided with the building of an isolation ward, and such ward would go far in checking the spread of infection among the children.

(3) *Elevator*.—Some method is needed whereby the infirmary cases and those physically incapacitated on other floors could be moved out of doors. At present one child in every three or four is denied the privilege of ever getting out at all. An elevator of some sort would meet this difficulty and it would also help eliminate the feeding of so many in the wards for a goodly number who are now fed on the various floors could be taken to the main dining room.

(4) *Kitchen Equipment*.—Two boilers and a steamer are needed in the kitchen to relieve the pressure of service of the range. As these additions have been promised us we trust they will soon be installed.

(5) *Partitions*.—We have decided that additional space could be taken from the two large day rooms without undue crowding, and this space could be utilized for further dormitory accommodation, or for special accommodation of very low grades or epileptics.

(6) *Vocational Training*.—Serious consideration should be given to our need for a building to be used for manual and vocational training purposes. The type of building will depend upon the Department's future plans governing the whole work for mental defectives in the Province. Certainly we cannot do justice to the higher grade patients without some effort being made to teach them the fundamentals of such vocational work as carpentry, painting, shoe repair, reed work, weaving, knitting, brush-making, etc. A building for this purpose need not be expensive unless some further room accommodation is planned, say for the outside help and other adult male patients.

CONCLUSION

The work for custodial cases of feeble-mindedness can now be said to be fairly well established. The children in the school are well cared for, and every effort is put forth to keep them clean and happy. This is no light task, when you consider that of the one hundred and seven patients, thirty-six have to be fed; about forty-five are dirty in their habits, and require a definite routine night and day in order to keep them clean; that thirty-one are unable to walk without *help*, and one in seven cannot walk at all; that seventy are unable to dress themselves, and of the entire population only six can dress themselves without supervision or assistance of some kind. These facts require no further comment, but they explain to quite an extent the need for an efficient, sympathetic type of an attendant,—one who will place her own interests secondary to those of a defective, often repulsive, but a very helpless child.

But what of the work for that larger and more uncertain group—the “problem” case, the “high grade moron,” and those others of the “border line” type who cannot fit into conventional community life? These are sufficiently numerous, and their potentialities for evil sufficiently great that we would do well not to lose sight of the need for a programme comprehensive enough to include special care and training for these also, with a view to later parole under some scheme of extra institutional supervision. With our present facilities we will not be in a position to take care of but a few of those urgent cases still remaining on our files, hence the impossibility of attempting anything in the way of institutional care and special training for the above group until a further building programme is initiated and put into effect.

This applies also to any Provincial programme that may be undertaken. There is no doubt that there are many defective children throughout the Province, reported as suspects by teachers and Public Health nurses. A psychiatric investigation of these cases, while it would give us much valuable information for our records, would not help much in solving the problem of care and special training for those of them needing such. Much information and instruction could be given the parents of these cases, however, and a team for field work would be a distinct advance in Province-wide work and it would meet a real need, pending further expansion.

All of which is respectfully submitted.

W. J. McALISTER, M.D.,
Medical Superintendent.

DR. W. C. LAIDLAW,
Deputy Minister of Health.

PROVINCIAL TRAINING SCHOOL, RED DEER
FISCAL BALANCE SHEET

PARTICULARS	EXPENDITURES. RECEIPTS.
Appropriation for the year 1923	\$45,890.00
Salaries	\$16,050.94
LESS Salary refunds	51.15
	\$15,999.79
Bonuses	\$ 242.84
LESS Bonus refunds	242.84
	\$ 300.00
Trust Account Advance	300.00
LESS Trust Account refund	300.00
	7,362.17
Food	290.38
Ice	1,494.16
Clothing and Clothing Materials	355.54
Household Furnishings	789.56
Laundry and Cleaning Materials	102.87
Linen and Towelling	225.87
Beds and Bedding	150.19
Dishes and Crockery	626.35
Medical and Dental Supplies and Services	555.57
School Supplies, Games and Entertainment	20.00
Religious Services	569.43
Car and Garage	358.45
Transportation and Travelling Expenses	1,266.06
Office Supplies and Expenses	231.14
Farm and Garden	86.00
Miscellaneous	\$30,483.53
Actual Expenditure of vote 8/22/11	7,451.66
Maintenance Collected and Deposited	184.25
Collections from Board and Room Deposited	113.00
Collections from Patients Clothing Account	1,419.21
Stock in Stores (as per invoice attached)	95.38
Stock in Sewing-room (as per invoice attached)	24,669.97
To Balance	\$55,153.50
	\$55,153.50

PROVINCIAL TRAINING SCHOOL, RED DEER
GENERAL SUMMARY OF FISCAL BALANCE SHEET

Total number of Institution days for the year 1923	25,076
Revenue for Maintenance	\$ 7,451.66
Revenue for Maintenance not collected	5,998.65
Revenue from Clothing Sales	113.00
Revenue from Clothing Sales not collected	330.37
Revenue from Board and Room of Capital Workmen	184.25
Appropriation for the year 1923	45,890.00
Total Expenditure for the year 1923	30,483.53
LESS Stocks on hand, as per invoices	1,514.59
Balance	24,669.97
Cost per Patient per day	1.21½
Cost per Patient per day <i>Less</i> Revenues .....	.83
Salaries for the year 1923	\$15,999.79
Food	7,362.17
Household Furnishings, Laundry and Linen, etc.	1,624.03
Clothing and Clothing Materials	1,494.16
Medical and Dental Supplies and Services	626.35
School Supplies, Religious Services, Games, etc.	575.57
Travelling, Office and Miscellaneous Expenses	1,710.51
Car and Garage	569.43
Farm, Stock and Gardens	231.14
Ice	290.38

PROVINCIAL TRAINING SCHOOL, RED DEER
FARM REPORT

Produce	Quantity Produced	Value	Supplied to Oliver	Supplied to School	Quantity on Hand	Value
Beets	4,918 lbs.	\$ 152.75	\$ 80.70	\$ 26.12	1,531 lbs.	\$ 45.93
Beans	20 lbs.	1.40		1.40		
Cabbage	16,027 lbs.	336.24	170.00	49.34	5,845 lbs.	116.90
Corn	18 lbs.	1.26		1.26		
Carrots	32,142 lbs.	663.72	298.00	53.60	15,606 lbs.	312.12
Cauliflower	513 lbs.	25.65	8.25	17.40		
Celery	615 lbs.	62.36		62.36		
Chicken	50 lbs.	8.00		8.00		
Eggs	28 7/12 dozen.	5.48		5.48		
Lettuce	346 heads	25.20		25.20		
Milk	608.9 gallons	242.56		242.56		
Onions	804 lbs.	37.11	1.80	35.31		
Peas	376 lbs.	33.92		33.92		
Potatoes	91,340 lbs.	776.85	385.50	128.05	31,596 lbs.	263.30
Parsnips	9,677 lbs.	237.37	96.00	15.82	4,185 lbs.	125.55
Radishes	127 bunches	3.81		3.81		
Rhubarb	338 lbs.	12.76		12.76		
Turnips	19,906 lbs.	713.13	398.60	54.55	8,666 lbs.	259.98
		\$3,339.57	\$1,438.85	\$776.94		\$1,123.78

Values calculated at market prices, at time of disposal.

ANNUAL REPORT
OF THE
Vital Statistics Branch
OF THE
DEPARTMENT OF PUBLIC HEALTH
PROVINCE OF ALBERTA
1923

Annual Report of the Vital Statistics Branch

SIR,—I have the honour to submit herewith the Annual Report on the Vital Statistics of Alberta applicable to the year 1923. The Dominion census of 1921 showed a population of 588,454, and as there are no available provincial statistics on migration the population for the intercensal years can only be estimated from apparent provincial conditions. These conditions differ very little from the two preceding years, and as there has been a large immigration to offset the emigration and natural increase the population has again been estimated at 588,454.

The births of 15,152 living children were registered during 1923, and is 1,010 less than in the preceding year; this number is also 479 less than the mean of the preceding five years. The birth rate is 25.75 per 1,000 population, being .69 less than the previous year. Of the 15,153 children registered, 7,745 were males and 7,408 were females, being a ratio of 1,072 males to every 1,000 females, which is just about the average rate for preceding years. There were 200 sets of twins, but no triplets during the year. The illegitimate births amounted to 290. Of the total births, 5,969 occurred in cities and towns, 8,920 in the rural districts, and 264 on Indian reservations. Edmonton had 1,955 births and Calgary 1,679 births.

Four thousand one hundred and seventeen marriages were registered during the year, being 155 less than the number for the previous year, and 445 less than the average of the five preceding years. The rate per 1,000 population is 7.00. There were only 28 brides under 16 years of age, as compared with 121 the previous year. One thousand one hundred and forty-seven brides were married between the ages of 16 and 19, whilst 1,586 brides were married between the ages of 20 and 24. Twenty-two brides and 46 grooms were over the age of 60. The religions of the various contracting parties were as follows: Presbyterians, 1,856; Methodists, 1,256; Anglicans, 1,272; Roman and Ruthenian Catholics, 1,620; the balance being distributed amongst various other denominations. The marriages in the cities were as follows: Edmonton 981, Calgary 858, Lethbridge 245, and Medicine Hat 135.

The divorces made absolute during the year numbered 89, 57 being granted to husbands and 32 to wives.

Deaths registered during the year numbered 4,843, those of males being 2,758, and those of females 2,085. This number is 438 less than in the previous year, and corresponds to a death rate of 8.23 per 1,000 population, which is a decrease of .39. Pneumonia was again the chief cause, accounting for 8.58 of the deaths; this is a decrease, however, from the previous year, when this disease accounted for 9.09 of the deaths. Diseases of the heart have, however, increased, rising from 5.26 to 7.50, whilst violent deaths are the third highest cause, being 6.81, a figure which is much too high, being double that of more densely populated countries. Pulmonary tuberculosis accounts for 4.58, a slight decrease. The death rates from Typhoid, Measles, Scarlet Fever and Diphtheria all show decreases, whilst there is an increase in the rate for Whooping Cough. There were no deaths from Smallpox.

94.2
The deaths of children less than one year of age numbered 1,372, which is an infantile mortality rate of 90.54 per 1,000 births. This is a decrease over the previous year of 1.39, and is 6.19 less than the average of the preceding five years.

There were 69 deaths from suicide, and 17 from murder and manslaughter. The stillbirths numbered 413, a decrease of 21.

DONALD MACKIE,

Deputy Registrar General.

DR. W. C. LAIDLAW,

Deputy Minister of Health.

AREA AND POPULATION OF CITIES AND TOWNS, 1921, 1911
AND 1901, AS CLASSED IN 1921

CITIES AND TOWNS	Land Area in square miles	Population 1921		1911	1901	Inc. or Dec.	
		Total	Per Square Mile			1921 over 1911	1911 over 1901
Cities		147,246		93,940	13,083	53,306	80,857
Calgary	40.50	63,000	1,563.08	43,704	4,392	19,601	39,312
Edmonton	42.50	58,821	1,384.02	31,064	4,176	27,757	26,888
Lethbridge	10.85	11,097	1,022.76	9,035	2,072	2,062	6,963
Medicine Hat	17.00	9,634	566.70	5,608	1,570	4,026	4,038
Red Deer	1.56	2,328	1,492.30	2,118	323	210	1,795
Wetaskiwin	4.00	2,061	515.25	2,411	550	—350	1,861
Towns		50,145		34,575	5,428	15,570	29,147
Athabasca	2.00	425	212.50	227	268	198	—41
Bassano	1.25	799	639.20	540	.....	259	.....
Beverly	1.00	1,039	1,039.00	.....	.....	.....	.....
Big Valley	0.50	1,057	2,114.00	.....	.....	.....	.....
Blairmore	0.78	1,552	1,989.74	1,137	231	415	906
Bow Island	0.56	427	762.50	307	.....	120	.....
Brooks	1.00	499	499.00	486	.....	13	.....
Camrose	3.50	1,892	540.57	1,586	.....	306	.....
Cardston	1.33	1,612	1,212.03	1,207	639	405	568
Carmanagay	1.00	300	300.00	286	.....	14	.....
Castor	0.87	710	816.09	1,659	.....	—949	.....
Claresholm	1.00	963	963.00	809	.....	154	.....
Coleman	0.14	1,590	11,357.14	1,557	.....	33	.....
Coronation	2.00	645	322.50	.....	.....	.....	.....
Daysland	0.72	441	612.50	349	.....	92	.....
Diamond City	0.25	198	792.00	510	.....	—312	.....
Didsbury	1.62	842	519.75	726	112	116	614
Drumheller	0.34	2,499	7,350.00	.....	.....	.....	.....
Edson	14.00	1,138	81.28	497	.....	641	.....
Fort Saskatchewan	0.93	982	1,055.91	782	306	200	476
Gleichen	0.42	668	1,590.47	533	101	85	482
Granum	0.27	279	1,033.33	250	.....	29	.....
Grouard	0.46	375	815.21	447	.....	—72	.....
Grande Prairie	0.75	1,061	1,414.66	.....	.....	.....	.....
Hanna	1.00	1,364	1,364.00	.....	.....	.....	.....
Hardisty	2.53	517	204.34	351	.....	166	.....
High River	1.01	1,198	1,186.13	1,182	153	16	1,029
Innisfail	1.51	941	623.17	602	317	339	285
Irvine	1.25	356	284.80	372	.....	—16	.....
Lacombe	1.00	1,133	1,133.00	1,029	449	104	530
Leduc	0.54	756	1,400.00	523	112	233	411
Lloydminster (pt.) .....	.....	286	.....	222	.....	64	.....
Macleod	8.50	1,723	202.70	1,844	796	—121	1,048
Magrath	2.35	1,069	454.89	995	424	74	571
Morinville	0.78	460	580.74	385	49	75	336
Nanton	1.36	710	522.06	571	.....	139	.....
Okotoks	0.31	448	1,445.16	516	245	—68	271
Olds	1.25	764	611.20	917	218	—153	699
Peace River	0.53	980	1,849.06	.....	.....	.....	.....
Pincher Creek	0.81	888	1,096.30	1,027	335	—139	692
Ponoka	1.00	1,594	1,594.00	642	151	952	491
Raymond	4.06	1,394	343.35	1,465	.....	—71	.....
Redcliffe	3.75	1,137	303.20	220	.....	917	.....
Staveley	1.34	292	217.91	245	.....	47	.....
Stettler	3.75	1,416	277.60	1,444	.....	—28	.....
St. Albert	2.34	800	341.88	614	472	186	142
Stony Plain	1.86	360	193.55	505	.....	—145	.....
Strathmore	1.13	584	516.81	531	.....	53	.....
Taber	3.01	1,705	566.44	1,400	.....	305	.....
Tofield	1.92	500	260.42	586	.....	—86	.....
Vegreville	0.18	1,479	8,216.66	1,029	.....	450	.....
Vermilion	2.53	1,272	502.77	625	.....	647	.....
Vulcan	0.34	641	1,885.29	.....	.....	.....	.....
Wainwright	1.75	975	557.14	788	.....	187	.....
Youngstown	0.37	410	1,108.11	.....	.....	.....	.....

POPULATION OF INCORPORATED VILLAGES OF ALBERTA,
1921, 1911 AND 1901, AS CLASSED IN 1921

VILLAGES	1921	1911	1901	VILLAGES	1921	1911	1901
All Villages.....	25,513	8,714	552	Hughenden	173	.....	.....
Acme	137	181	.....	Innisfree	226	100	.....
Airdrie	160	164	.....	Irricana	99	.....	.....
Anderson	111	.....	.....	Irma	157	.....	.....
Alix	282	267	.....	Islay	166	90	.....
Alliance	246	.....	.....	Jenner	98	.....	.....
Alberta Beach	75	.....	.....	Killam	394	197	.....
Barons	253	75	.....	Kitscoty	274	.....	.....
Bashaw	133	.....	.....	Lamont	419	197	.....
Bawlf	150	270	.....	Langdon	128	159	.....
Bentley	222	.....	.....	Lavoy	98	127	60
Bittern Lake	48	.....	.....	Legal	318	.....	.....
Blackie	204	.....	.....	Lomond	194	.....	.....
Blackfalds	93	150	.....	Lougheed	256	.....	.....
Botha	130	.....	.....	Lac La Biche	75	.....	.....
Bowden	222	178	12	Mannville	275	169	.....
Bruderheim	255	132	.....	Millet	208	162	.....
Burdett	182	.....	.....	Milk River	181	.....	.....
Beiseker	183	.....	.....	Mirror	381	.....	.....
Cadogan	106	.....	.....	Monarch	41	.....	.....
Carstairs	328	270	20	Monitor	149	.....	.....
Carbon	312	.....	.....	Mundare	497	152	.....
Cayley	135	126	.....	Munson	207	92	.....
Cereal	180	.....	.....	Minburn	175	.....	.....
Champion	338	.....	.....	Morrin	164	.....	.....
Chauvin	219	.....	.....	New Norway	137	61	.....
Chipman	225	.....	.....	North Red Deer ...	325	304	.....
Chinook	241	.....	.....	Nobleford	142	.....	.....
Clairmont	130	.....	.....	Ochaton	60	55	.....
Clive	232	.....	.....	Oyen	390	.....	.....
Clyde	154	.....	.....	Penhold	127	94	.....
Coalhurst	928	.....	.....	Pincher City	73	116	.....
Cochrane	268	395	92	Provost	465	329	.....
Coaldale	142	.....	.....	Retlaw	154	.....	.....
Commerce	360	.....	.....	Richdale	109	.....	.....
Consort	166	.....	.....	Rocky Mt. House...	375	.....	.....
Cowley	107	142	.....	Ryley	242	110	.....
Crossfield	211	262	.....	Rumsey	116	.....	.....
Czar	71	.....	.....	Rockyford	228	.....	.....
Craigmyle	231	.....	.....	Rimbey	319	.....	.....
Delburne	215	.....	.....	Rosebud	130	.....	.....
Delia	312	.....	.....	Sedgewick	397	331	.....
Donalda	248	.....	.....	Spirit River	210	.....	.....
Duchess	116	.....	.....	Stirling	294	514	349
Edgerton	176	.....	.....	Strome	240	192	.....
Empress	394	.....	.....	St. Paul de Metis...	869	.....	.....
Entwistle	219	140	.....	Suffield	89	.....	.....
Erskine	198	131	.....	Sylvan Lake	180	.....	.....
Enchant	92	.....	.....	Seba Beach	35	.....	.....
Ferintosh	144	76	.....	Three Hills	471	.....	.....
Frank	401	806	19	Trochu	537	353	.....
Forestburg	181	.....	.....	Veteran	157	.....	.....
Gadsby	150	213	.....	Viking	357	153	.....
Galahad	124	.....	.....	Wabamun	99	.....	.....
Grassy Lake	161	247	.....	Westlock	321	.....	.....
Heisler	118	.....	.....	Walsh	74	.....	.....
Halkirk	146	.....	.....	Warner	281	321	.....
Holden	192	111	.....			

BIRTHS IN DIVISIONS FOR THE YEAR 1923—BY SEX AND NATIONALITY OF PARENTS

DIVISIONS									
	Male	Female	Illegitimate	Plural	Canadian	British	U.S.A.	Foreign	Indian
ALBERTA	7745	7408	290	400	4235	3402	3100	4152	264
Rural	4563	4357	85	246	2323	1355	2042	3200	0
Urban	3057	2912	180	154	1912	2047	1058	952	0
Indians	125	139	25	0	0	0	0	0	264
DIVISION No. 1. MEDICINE HAT	364	380	5	6	155	139	223	226	1
Rural	169	176	1	4	32	40	124	149	0
Urban	195	203	4	2	123	99	99	77	0
Indians	0	1	0	0	0	0	0	0	1
City of Medicine Hat	174	168	2	2	114	82	76	70	342
Town of Taber	21	35	2	0	9	17	23	7	0
DIVISION No. 2. MACLEOD	605	568	16	38	264	276	358	264	11
Rural	221	221	4	14	100	75	132	185	0
Urban	377	343	12	24	164	201	226	129	0
Indians	7	4	0	0	0	0	0	0	11
City of Lethbridge	183	177	10	10	77	141	79	63	0
Towns of Blairmore	21	20	0	0	8	6	5	22	0
Cardston	70	58	1	6	33	13	74	8	41
Coleman	24	31	0	2	15	14	0	26	0
Macleod	33	18	0	4	25	13	11	2	55
Magrath	23	20	1	0	3	7	32	1	51
Raymond	23	19	0	2	3	7	25	43	0
DIVISION No. 3. BOW	177	171	0	8	66	53	110	119	0
Rural	161	154	0	8	58	43	103	111	0
Urban	16	17	0	0	8	10	7	8	0
Town of Redcliffe	16	17	0	0	8	10	7	8	0
DIVISION No. 4. NANTON	179	171	2	10	106	75	133	36	0
Rural	139	135	2	8	81	57	103	33	0
Urban	40	36	0	2	25	18	30	3	0
Town of High River	40	36	0	2	25	18	30	3	0
DIVISION No. 5. ACADIA	385	410	5	16	251	195	187	162	0
Rural	217	212	2	10	135	95	121	78	0
Urban	168	198	3	6	116	100	66	84	0
City of Drumheller	122	134	3	4	80	72	41	63	0
Town of Hanna	46	64	0	2	36	28	25	21	0
Total	15153	15153							
	8920	8920							
	5969	5969							
	264	264							

BIRTHS IN DIVISIONS FOR THE YEAR 1923—BY SEX AND NATIONALITY OF PARENTS—Continued

DIVISIONS	Male	Female	Illegitimate	Plural	Canadian	British	U.S.A.	Foreign	Indian	Total
DIVISION No. 6. CALGARY										
Rural	1259	1286	62	74	773	928	451	343	50	2545
Urban	405	411	4	30	222	184	254	156	0	816
Indians	837	842	58	44	551	744	197	187	0	1679
City of Calgary	17	33	0	0	0	0	0	0	50	50
City of Calgary	837	842	58	44	551	744	197	187	0	1679
DIVISION No. 7. BATTLE RIVER										
Rural	502	463	6	24	281	208	285	190*	1	965
Urban	502	462	6	24	281	208	285	190	0	964
Indians	0	1	0	0	0	0	0	0	1	1
DIVISION No. 8. RED DEER										
Rural	685	609	13	28	384	234	353	272	46	1294
Urban	406	398	4	24	221	144	241	198	0	804
Indians	253	191	2	4	163	90	117	74	0	444
Cities of	26	20	7	0	0	0	0	0	46	46
Wetaskiwin	49	31	0	0	36	25	12	7	0	80
Towns of Big Valley	44	26	1	2	26	5	13	26	0	70
Camrose	17	26	0	0	11	10	13	9	0	43
Lacombe	42	28	0	0	25	15	20	10	0	70
Ponoka	32	26	0	0	29	14	22	3	0	68
Stettler	27	23	1	2	15	7	22	11	0	55
Stettler	27	31	0	0	21	14	15	8	0	58
DIVISION No. 9. ROCKY MOUNTAIN										
Rural	198	181	4	12	70	87	115	107	0	379
Urban	198	181	4	12	70	87	115	107	0	379
DIVISION No. 10. VICTORIA										
Rural	712	650	8	42	225	110	111	916	0	1362
Urban	627	568	7	36	159	81	77	878	0	1195
Towns of Vegreville	85	82	1	6	66	29	34	38	0	167
Vermilion	48	36	0	4	28	7	18	31	0	84
Vermilion	37	46	1	2	38	22	16	7	0	83
DIVISION No. 11. EDMONTON										
Rural	1468	1414	111	76	948	831	394	693	16	2882
Urban	426	454	11	14	286	101	134	359	0	880
Indians	1037	949	99	62	662	730	260	334	0	1986
City of Edmonton	5	11	1	0	0	0	0	0	16	16
Town of Beverly	1024	931	99	62	659	726	257	313	0	1955
Town of Beverly	13	18	0	0	3	4	3	21	0	31
DIVISION No. 12. EDSON										
Rural	140	120	2	8	55	61	60	84	0	260
Urban	117	90	1	6	41	48	51	67	0	207
Town of Edson	23	30	1	2	14	13	9	17	0	53
Town of Edson	23	30	1	2	14	13	9	17	0	53

DIVISION	No. 13.	BEAVER RIVER	299	10	34	213	30	68	261	42	614
Rural	315	276	276	8	34	213	30	68	261	0	572
Indians	296	23	23	2	0	0	0	0	0	42	42
DIVISION No. 14.	404	363	363	8	8	160	91	122	394	0	767
Rural	404	363	363	8	8	160	91	122	394	0	767
DIVISION No. 15.	96	76	76	18	2	93	9	27	21	22	172
Rural	86	64	64	12	2	93	9	27	21	0	150
Urban	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Indians	10	12	12	6	0	0	0	0	0	22	22
DIVISION No. 16.	178	178	178	5	12	136	70	88	60	2	356
Rural	151	156	156	4	10	116	57	75	59	0	307
Urban	26	21	21	0	2	20	13	13	1	0	47
Indians	1	1	1	1	0	0	0	0	0	2	2
Town of Grande Prairie	26	21	21	0	2	20	13	13	1	0	47
DIVISION No. 17.	78	69	69	15	2	55	5	10	4	73	147
Rural	38	36	36	7	2	55	5	10	4	0	74
Indians	40	33	33	8	0	0	0	0	0	73	73

BIRTHS IN DIVISIONS, CITIES, TOWNS AND DISTRICTS BY MONTHS

DIVISIONS, TOWNS AND CITIES	CALENDAR MONTH												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
ALBERTA	1300	1291	1375	1249	1367	1268	1305	1282	1182	1312	1118	1104	15153
Rural	814	753	830	764	785	749	762	790	671	751	634	617	8920
Urban	473	524	522	472	551	495	524	469	481	538	461	459	5969
Indians	13	14	23	13	31	24	19	23	30	23	23	28	264
DIVISION No. 1. MEDICINE HAT													
Rural	67	65	54	60	70	56	63	69	63	67	54	56	744
Urban	31	35	26	31	30	30	27	36	23	31	21	24	345
Indians	36	30	28	29	40	26	36	32	40	36	33	32	398
City of Medicine Hat	0	0	0	0	0	0	0	1	0	0	0	0	1
Town of Taber	30	26	26	25	35	23	31	30	35	29	23	29	342
	6	4	2	4	5	3	5	2	5	7	10	3	56
DIVISION No. 2. MACLEOD													
Rural	94	112	91	103	92	100	97	95	110	98	107	74	1173
Urban	36	46	44	37	33	42	32	40	35	36	41	20	442
Indians	58	66	47	66	59	58	65	54	72	61	61	53	720
City of Lethbridge	0	0	0	0	0	0	0	1	3	1	5	1	11
Towns of Blairmore	28	37	27	28	27	28	35	29	37	26	38	25	360
Cardston	8	1	2	4	0	5	7	2	4	3	2	3	41
Coleman	11	7	2	13	14	11	8	12	15	14	11	9	128
Macleod	2	7	6	6	2	8	3	5	2	6	1	7	55
Magrath	3	4	3	5	4	3	6	2	6	0	11	4	51
Raymond	2	4	6	5	5	1	2	3	5	8	1	1	43
	4	5	1	5	7	2	4	1	3	4	2	4	42
DIVISION No. 3. BOW													
Rural	34	22	30	37	34	34	28	19	30	32	21	27	348
Urban	32	20	27	35	32	27	24	18	27	30	20	23	315
Town of Redclife	2	2	3	2	2	7	4	1	3	2	1	4	33
	2	2	3	2	2	7	4	1	3	2	1	4	33
DIVISION No. 4. NANTON													
Rural	20	30	36	29	42	28	38	23	19	28	24	33	350
Urban	18	25	30	25	29	26	28	17	17	21	18	20	274
Town of High River	2	5	6	4	13	2	10	6	6	7	6	13	76
	2	5	6	4	13	2	10	6	2	7	6	13	76
DIVISION No. 5. ACADIA													
Rural	85	77	68	50	70	62	83	60	59	67	65	49	795
Urban	48	39	41	32	33	35	51	28	34	29	29	30	429
City of Drumheller	37	38	27	18	37	27	32	32	25	38	36	19	366
Town of Hanna	29	28	17	13	30	19	21	22	13	26	27	11	256
	8	10	10	5	7	8	11	10	12	12	9	8	110

DIVISION No. 6. CALGARY	217	204	241	231	223	225	211	209	209	212	158	205	254
Rural	81	52	66	77	81	64	68	86	66	61	57	57	816
Urban	135	152	173	152	139	151	139	116	137	144	100	141	1679
Indians	1	0	2	2	3	0	4	7	6	7	1	7	50
City of Calgary	135	152	173	152	139	151	139	116	137	144	100	141	1679
DIVISION No. 7. BATTLE RIVER													
Rural	96	77	97	89	71	74	84	60	84	77	84	72	965
Indians	0	0	0	0	0	0	0	0	0	1	0	0	1
DIVISION No. 8. RED DEER													
Rural	110	106	124	106	112	108	106	123	91	124	89	95	1294
Urban	69	66	81	74	64	74	71	72	54	75	48	56	804
Indians	56	35	36	32	44	33	33	47	30	45	38	35	444
Cities of Red Deer	5	5	7	0	4	1	2	4	7	4	3	4	46
Wetaskiwin	3	3	5	3	8	8	7	11	9	6	8	6	80
Towns of Big Valley	4	4	6	5	3	5	2	4	7	13	9	9	70
Camrose	4	4	4	5	3	5	3	4	2	2	2	1	43
Lacombe	7	8	6	7	6	3	4	10	3	7	6	3	70
Ponoka	6	4	9	6	7	2	7	11	2	4	5	5	68
Stettler	4	3	4	2	8	8	3	2	1	8	4	8	55
	6	7	2	6	5	2	7	5	6	5	4	3	58
DIVISION No. 9. ROCKY MOUNTAIN													
Rural	28	31	39	25	32	31	24	40	32	40	32	25	379
DIVISION No. 10. VICTORIA													
Rural	111	112	133	116	124	113	127	136	94	117	89	90	1362
Urban	96	96	118	100	109	100	111	124	80	100	76	85	1195
Towns of Vegreville	15	16	15	16	15	13	16	12	14	17	13	5	187
Vermilion	11	7	11	6	9	7	6	4	4	10	9	5	84
			4	10	6	6	10	8	10	7	4	0	88
DIVISION No. 11. EDMONTON													
Rural	227	247	257	211	261	240	260	252	228	253	229	222	2882
Urban	85	78	74	66	66	71	77	85	71	71	65	71	880
Indians	141	169	180	145	190	169	181	165	151	181	164	160	1986
City of Edmonton	1	0	3	0	5	0	2	2	1	1	0	1	16
Town of Beverly	140	167	177	141	187	165	178	162	151	180	158	149	1955
	1	2	3	4	3	4	3	3	0	1	6	1	31
DIVISION No. 12. EDSON													
Rural	27	16	19	20	33	27	15	21	22	22	17	21	260
Urban	23	9	15	15	27	23	13	17	18	18	12	17	207
Town of Edson	4	7	4	5	6	4	2	4	4	4	5	4	53
	4	7	4	5	6	4	2	4	4	4	5	4	53
DIVISION No. 13. BEAVER RIVER													
Rural	55	70	48	55	59	57	47	40	42	60	44	37	614
Indians	50	68	47	52	57	54	43	39	33	56	41	32	572
	5	2	1	3	2	3	4	1	9	4	3	5	42
DIVISION No. 14. STURGEON													
Rural	67	54	69	64	68	64	64	77	60	63	58	59	767

BIRTHS IN DIVISIONS, CITIES, TOWNS AND DISTRICTS BY MONTHS—Continued

DIVISIONS, TOWNS AND CITIES	CALENDAR MONTH												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
DIVISION No. 15. CLEARWATER	15	19	16	17	15	18	14	12	13	12	12	9	172
Rural	15	18	14	15	13	14	14	12	12	10	8	5	150
Indians	0	1	2	2	2	4	0	0	1	2	4	4	22
DIVISION No. 16. PEACE RIVER	36	37	31	23	38	24	30	35	27	28	26	21	356
Rural	29	32	28	20	32	18	24	35	24	25	22	18	307
Urban	7	4	3	3	6	5	6	0	3	3	4	3	47
Indians	0	1	0	0	0	1	0	0	0	0	0	0	2
Town of Grande Prairie	7	4	3	3	6	5	6	0	3	3	4	3	47
DIVISION No. 17. ATHABASCA	11	12	22	13	23	7	14	11	4	12	9	9	147
Rural	10	7	14	7	8	2	7	4	1	9	2	3	74
Indians	1	5	8	6	15	5	7	7	3	3	7	6	73

MARRIAGES—COUNTRY OF BIRTH OF CONTRACTING PARTIES
(FOR CITY OF EDMONTON)

BRIDEGROOMS																	
English-Speaking Countries					Foreign Countries												
					Canadian	British	U.S.A.	Total	France	Germany	Russia	Scandinavia	Central Europe	Balkans	Asia	Others	Total
378	Canadian Brides Married	173	81	79	333				0	5	9	5	21	1	0	4	378
266	British Brides Married	67	167	18	252				1	0	1	7	2	0	0	3	266
184	U.S.A. Brides Married	71	45	47	163				0	1	3	12	2	0	0	3	184
828	English-Speaking Countries, Total	311	293	144	748				1	6	13	24	25	1	0	10	828
5	French Brides Married	0	0	0	0				3	1	0	0	0	0	0	1	5
14	German Brides Married	1	1	5	7				0	5	1	1	0	0	0	0	14
17	Russian Brides Married	2	1	0	3				1	1	9	0	3	0	0	0	17
24	Scandinavian Brides Married	3	2	6	11				0	0	0	13	0	0	0	0	24
69	Central Europe Brides Married	3	2	2	7				0	1	10	0	48	3	0	0	69
3	Balkan Brides Married	0	0	0	0				0	0	0	0	0	3	0	0	3
1	Asiatic Brides Married	0	0	0	0				0	0	0	0	0	0	1	0	1
20	Other Brides Married	3	2	0	5				0	0	0	0	0	0	0	15	20
981	Total	323	301	157	781				5	14	33	38	76	7	1	26	981

DIVISIONS

RELIGIOUS DENOMINATIONS OF THE CONTRACTING PARTIES

	Sex	Presbyterian	Methodist	Anglican	Roman Catholic	Ruthenian Grk Catholic	Greek Orthodox	Lutheran	Baptist	Congregational	Mormon	Mennonite	Salvation Army	Others	No Church	Total
ALBERTA	M	944	635	629	628	165	140	390	196	28	71	8	13	170	54	4117
Rural	F	912	621	643	662	165	123	372	219	34	86	8	20	179	27	4117
Urban	M	190	207	133	283	89	92	147	57	10	17	8	—	45	19	1305
Indians	F	733	436	142	290	92	88	138	32	10	19	6	3	55	13	1305
	M	722	414	486	345	76	48	243	139	18	54	—	13	125	35	2766
	F	—	—	501	372	73	35	234	167	24	67	2	17	124	14	2766
	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	46
DIVISION No. 1. MEDICINE HAT	M	57	18	10	20	—	—	42	6	3	10	—	—	15	5	186
Rural	F	50	23	11	18	—	—	38	10	5	9	—	—	18	4	186
Urban	M	7	3	—	7	—	—	6	2	1	5	—	—	2	2	33
City of Medicine Hat	F	4	5	1	6	—	—	7	1	2	5	—	—	2	2	33
Town of Taber	M	50	15	10	13	—	—	36	4	2	5	—	—	15	3	153
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	M	46	13	7	10	—	—	35	4	2	1	—	—	14	3	135
	F	43	15	7	8	—	—	30	9	3	1	—	—	18	1	135
	M	4	2	3	3	—	—	1	—	—	4	—	—	1	—	18
	F	3	3	3	4	—	—	1	—	—	3	—	—	—	1	18
DIVISION No. 2. MACLEOD	M	86	56	57	74	20	6	18	11	—	50	1	2	22	11	414
Rural	F	81	41	62	93	13	4	18	11	4	56	—	3	16	6	414
Urban	M	14	6	8	16	3	—	1	2	—	3	1	—	4	1	59
City of Lethbridge	F	14	6	5	19	2	—	2	1	1	4	—	—	5	—	59
Towns of Blairmore	M	72	50	49	58	17	6	17	9	—	47	—	2	18	10	355
Cardston	F	67	41	57	74	11	4	16	10	3	52	—	3	11	6	355
Coleman	M	50	41	37	38	14	5	14	6	—	17	—	2	13	8	245
Macleod	F	50	28	43	49	10	4	14	9	3	21	—	3	7	4	245
Magrath	M	3	6	2	6	—	1	—	1	—	—	—	—	—	—	20
Raymond	F	5	5	2	5	—	—	1	1	—	—	—	—	—	—	20
	M	2	—	—	3	—	—	1	1	—	28	—	—	1	1	37
	F	2	—	—	4	—	—	1	1	—	29	—	—	1	1	37
	M	11	1	5	10	3	—	1	1	—	—	—	—	1	—	33
	F	8	3	6	15	1	—	1	—	—	—	—	—	—	—	33
	M	6	1	5	1	—	—	—	—	—	—	—	—	—	—	14
	F	1	5	6	1	—	—	—	—	—	—	—	—	—	—	14
	M	1	1	—	—	—	—	—	—	—	1	—	—	2	—	4
	F	—	—	—	—	—	—	—	—	—	1	—	—	2	—	4
	M	—	—	—	—	—	—	—	—	—	1	—	—	—	—	2
	F	—	—	—	—	—	—	—	—	—	1	—	—	—	—	2

MARRIAGES BY RELIGIOUS DENOMINATIONS IN DIVISIONS, FOR THE YEAR 1923 —Continued

RELIGIOUS DENOMINATIONS OF THE CONTRACTING PARTIES																	
DIVISIONS		Sex	Presbyterian	Methodist	Anglican	Roman Catholic	Ruthenian Gr'k Catholic	Greek Orthodox	Lutheran	Baptist	Congrega-tional	Mormon	Mennonite	Salvation Army	Others	No Church	Total
DIVISION No. 3. BOW			M	15	10	7	5	1	12	5	—	—	—	1	—	3	59
Rural			F	9	11	9	7	1	8	4	—	—	1	—	—	7	59
Urban			M	13	9	6	5	1	12	5	—	—	1	—	—	3	55
Town of Redcliffe			M	7	11	9	7	1	8	4	—	—	1	—	—	6	55
			M	2	1	1	—	—	—	—	—	—	—	—	—	1	4
			M	2	1	1	—	—	—	—	—	—	—	—	—	—	4
			F	2	1	1	—	—	—	—	—	—	—	—	—	—	4
DIVISION No. 4. NANTON			M	24	9	12	4	—	1	2	1	3	1	—	1	2	60
Rural			F	18	13	8	11	—	1	1	1	2	1	—	5	60	
Urban			M	17	6	7	3	—	1	1	1	3	1	—	1	2	43
Town of High River			F	12	10	4	9	—	—	1	—	2	1	—	5	—	43
			M	7	3	5	1	—	—	1	—	—	—	—	—	—	17
			F	6	3	4	2	—	1	—	—	—	—	—	—	—	17
			M	7	3	5	1	—	—	—	—	—	—	—	—	—	17
			F	7	3	5	1	—	—	—	—	—	—	—	—	—	17
			M	6	3	4	2	—	1	—	—	—	—	—	—	—	17
DIVISION No. 5. ACADIA			M	30	23	17	25	—	13	10	2	1	—	1	7	2	132
Rural			F	30	24	22	27	—	9	7	1	1	—	3	6	1	132
Urban			M	12	14	11	3	—	8	6	2	1	—	—	4	—	63
City of Drumheller			F	11	17	10	4	—	1	5	1	1	—	1	4	—	63
			M	18	9	6	22	—	5	4	—	—	—	1	3	1	69
			F	19	7	12	23	—	1	2	—	—	—	2	2	1	69
			M	12	8	3	17	—	2	2	—	—	—	—	—	—	45
			F	13	7	7	17	—	—	—	—	—	—	—	—	1	45
Town of Hanna			M	6	1	3	5	—	3	2	—	—	—	1	3	—	24
			F	6	—	5	6	—	1	2	—	—	—	2	2	—	24
DIVISION No. 6. CALGARY			M	285	181	217	100	15	57	61	9	2	4	5	49	8	996
Rural			F	275	167	232	96	14	57	70	13	7	5	7	51	1	996
Urban			M	37	25	20	16	2	12	10	1	1	4	—	9	1	138
City of Calgary			F	38	26	19	16	1	10	9	3	—	3	1	11	1	138
			M	248	156	197	84	13	45	51	8	1	8	5	40	7	858
			F	237	141	213	80	13	47	61	10	7	2	6	40	—	858
			M	248	156	197	84	13	45	51	8	1	8	5	40	7	858
			F	237	141	213	80	13	47	61	10	7	2	6	40	—	858

[illegible]

VITAL STATISTICS BRANCH

RELIGIOUS DENOMINATIONS OF THE CONTRACTING PARTIES																		
DIVISIONS			Sex	Presbyterian	Methodist	Anglican	Roman Catholic	Ruthenian Grk Catholic	Greek Orthodox	Lutheran	Baptist	Congregational	Mormon	Mennonite	Salvation Army	Others	No Church	Total
DIVISION No. 12. EDSON			M	4	8	9	3	3	—	9	2	—	—	—	—	—	1	39
			F	4	9	10	2	2	—	8	1	—	—	—	—	—	—	39
Rural			M	2	4	5	1	—	—	7	1	—	—	—	—	—	—	21
			F	2	4	6	1	—	—	6	—	—	—	—	—	—	—	21
Urban			M	2	4	4	1	3	—	—	—	—	—	—	—	—	—	18
			F	2	4	4	2	2	—	2	1	—	—	—	—	—	—	18
Town of Edson			M	2	5	4	2	3	—	2	1	—	—	—	—	—	—	18
			F	2	5	4	1	2	—	2	1	—	—	—	—	—	—	18
DIVISION No. 13. BEAVER RIVER			M	1	8	1	49	10	15	3	2	—	—	—	—	—	1	91
			F	1	6	2	51	10	12	4	1	—	—	—	—	—	3	91
Rural			M	1	8	1	49	10	15	3	2	—	—	—	—	—	1	91
			F	1	6	2	51	10	12	4	1	—	—	—	—	—	3	91
DIVISION No. 14. STURGEON			M	5	20	7	37	13	22	7	2	—	—	—	—	—	—	114
			F	7	13	7	39	15	21	5	2	—	—	—	—	—	1	114
Rural			M	5	20	7	37	13	22	7	2	—	—	—	—	—	—	114
			F	7	13	7	39	15	21	5	2	—	—	—	—	—	—	114
DIVISION No. 15. CLEARWATER			M	1	2	2	18	—	—	1	—	—	—	—	—	—	—	24
			F	1	—	3	19	—	—	1	—	—	—	—	—	—	—	24
Rural			M	1	2	2	18	—	—	1	—	—	—	—	—	—	—	24
			F	1	—	3	19	—	—	1	—	—	—	—	—	—	—	24
DIVISION No. 16. PEACE RIVER			M	15	9	7	12	—	1	12	2	—	—	—	—	—	—	61
			F	16	8	12	14	—	1	9	—	—	—	—	—	—	1	61
Rural			M	6	8	5	8	—	1	9	1	—	—	—	—	—	—	39
			F	6	8	6	9	—	1	8	—	—	—	—	—	—	—	39
Urban			M	9	1	2	4	—	—	3	1	—	—	—	—	—	1	22
			F	10	—	6	5	—	—	1	—	—	—	—	—	—	—	22
Town of Grande Prairie			M	9	1	2	4	—	—	3	1	—	—	—	—	—	1	22
			F	10	—	6	5	—	—	1	—	—	—	—	—	—	—	22
DIVISION No. 17. ATHABASCA			M	8	1	2	13	1	—	—	1	—	—	—	—	—	—	21
			F	2	2	1	15	1	—	—	—	—	—	—	—	—	—	21
Rural			M	3	1	2	13	1	—	—	1	—	—	—	—	—	—	21
			F	2	2	1	15	1	—	—	—	—	—	—	—	—	—	21

MARRIAGES BY AGES IN DIVISIONS, FOR THE YEAR 1923

DIVISIONS	Sex	15-16	16-19	20-24	25-29	30-34	35-39	40-44	45-49	50-59	60 and over	Total
ALBERTA	M	—	46	1113	1328	757	399	198	103	82	46	4117
Rural	F	28	1147	1586	607	322	184	76	48	51	22	4117
Urban	F	18	524	425	459	198	106	41	24	20	21	1305
Indians	M	10	34	688	869	559	293	157	79	15	9	2766
	F	—	623	1102	475	263	148	60	36	36	13	2766
	F	—	—	—	—	—	—	—	—	—	—	46
	F	—	—	—	—	—	—	—	—	—	—	46
DIVISION No. 1. MEDICINE HAT	M	—	5	74	51	26	16	2	4	4	4	186
Rural	F	2	70	69	19	14	4	2	—	3	—	186
Urban	M	1	12	17	7	7	1	—	1	—	—	33
City of Medicine Hat	F	1	5	57	44	19	15	2	3	4	4	153
Town of Taber	M	1	58	53	17	12	4	2	—	3	—	153
	F	1	4	50	38	18	13	2	2	4	4	185
	F	—	49	46	16	11	4	2	—	3	—	185
	F	—	1	7	6	1	—	—	1	—	—	18
	F	—	9	7	1	1	—	—	—	—	—	18
DIVISION No. 2. MACLEOD	M	—	5	130	137	70	40	15	8	8	1	414
Rural	F	3	125	161	65	30	18	4	4	4	—	414
Urban	M	1	12	29	20	11	5	1	1	—	—	59
City of Lethbridge	F	2	5	112	9	4	3	11	7	—	—	59
Towns of Blairmore	M	1	113	132	117	59	35	3	7	8	1	355
	F	—	2	74	56	26	15	9	4	4	—	355
	F	1	75	93	84	47	20	9	4	4	1	245
	F	—	—	—	44	12	13	3	3	1	—	245
	F	1	6	6	8	2	4	—	1	1	—	20
Cardston	M	1	2	16	2	3	1	—	—	3	—	20
Coleman	F	—	13	12	10	2	2	2	—	1	—	37
Macleod	M	—	11	11	4	6	—	—	1	—	—	37
Magrath	F	—	13	14	11	6	5	—	—	—	—	33
Raymond	M	—	—	3	4	2	—	—	2	—	—	33
	F	—	4	4	4	2	3	—	2	—	—	14
	F	—	1	2	2	2	1	—	—	1	—	14
	F	—	1	2	—	1	—	—	—	—	—	4
	F	—	1	2	—	—	—	—	—	—	—	4
	F	—	1	2	—	—	—	—	—	—	—	2
	F	—	1	1	—	—	—	—	—	—	—	2

MARRIAGES BY AGES IN DIVISIONS, FOR THE YEAR 1923—Continued

DIVISIONS		Sex	15-16	16-19	20-24	25-29	30-34	35-39	40-44	45-49	50-59	60 and over	Total
DIVISION No. 3. BOW													
Rural	M	.....	—	16	20	21	10	1	4	1	1	1	59
Urban	F	.....	—	—	29	10	2	1	1	—	—	—	59
Town of Redcliffe	M	.....	—	—	20	19	9	1	8	1	1	1	55
	F	.....	—	—	27	8	2	1	1	—	—	—	55
	M	.....	—	—	—	2	1	—	1	—	—	—	4
	F	.....	—	—	—	2	—	—	—	—	—	—	4
	M	.....	—	—	2	2	—	—	—	—	—	—	4
	F	.....	—	—	—	2	—	—	—	—	—	—	4
DIVISION No. 4. NANTON													
Rural	M	.....	—	—	20	25	8	8	1	—	1	2	60
Urban	F	.....	—	14	25	12	3	1	2	—	1	1	60
Town of High River	M	.....	—	10	16	15	2	6	1	—	1	2	43
	F	.....	—	—	20	6	1	1	2	—	—	1	43
	M	.....	—	—	4	10	2	2	—	—	—	—	17
	F	.....	—	—	5	6	2	1	—	—	—	—	17
	M	.....	—	—	4	10	2	—	—	—	—	—	17
	F	.....	—	—	5	6	2	—	—	—	—	—	17
DIVISION No. 5. ACADIA													
Rural	M	.....	—	2	30	52	27	13	4	2	1	1	132
Urban	F	.....	—	43	56	18	8	2	—	2	1	—	132
City of Drumheller	M	.....	—	21	14	24	10	9	2	1	1	1	63
Town of Hanna	F	.....	—	—	27	8	2	2	—	1	1	—	63
	M	.....	—	1	16	28	17	4	2	1	—	—	69
	F	.....	—	—	29	10	6	—	2	1	—	—	69
	M	.....	—	22	13	19	10	1	1	—	—	—	45
	F	.....	—	1	20	6	1	—	—	—	—	—	45
	M	.....	—	17	3	9	7	3	1	1	—	—	24
	F	.....	—	5	9	4	5	—	—	—	—	—	24
DIVISION No. 6. CALGARY													
Rural	M	.....	—	12	238	300	197	105	76	33	24	11	996
Urban	F	.....	—	173	411	172	120	65	20	13	13	7	996
City of Calgary	M	.....	—	2	45	44	27	9	5	2	—	4	138
	F	.....	—	33	69	14	12	6	1	—	1	2	138
	M	.....	—	10	193	256	170	96	71	31	24	7	858
	F	.....	—	140	342	158	108	59	19	13	12	5	858
	M	.....	—	10	193	256	170	96	71	31	24	7	858
	F	.....	—	140	342	158	108	59	19	13	12	5	858
DIVISION No. 7. BATTLE RIVER													
Rural	M	.....	—	—	47	56	29	12	6	5	2	2	159
	F	.....	—	57	66	18	4	8	2	1	1	2	159
	M	.....	—	—	47	56	29	12	6	5	2	2	159
	F	.....	—	57	66	18	4	8	2	1	1	2	159

[illegible]

MARRIAGES BY AGES IN DIVISIONS, FOR THE YEAR 1923—Continued

DIVISIONS		Sex	15-16	16-19	20-24	25-29	30-34	35-39	40-44	45-49	50-59	60 and over	Total
DIVISION No. 13. BEAVER RIVER		M	—	—	38	32	7	7	2	1	2	2	91
		F	1	53	23	7	2	1	1	1	3	2	91
	Rural	F	1	53	23	7	2	1	1	1	3	2	91
DIVISION No. 14. STURGEON		M	—	8	45	41	12	9	2	—	2	—	114
		F	7	70	26	6	2	—	2	2	1	—	114
	Rural	F	7	70	26	6	2	—	2	2	1	—	114
DIVISION No. 15. CLEARWATER		M	—	2	5	5	5	3	2	1	1	—	24
		F	—	14	4	4	—	2	2	1	1	—	24
	Rural	F	—	14	4	4	—	2	2	1	1	—	24
DIVISION No. 16. PEACE RIVER		M	—	—	3	17	25	9	1	3	3	—	61
		F	—	21	22	7	6	1	2	1	1	—	61
	Rural	F	—	21	22	7	6	1	2	1	1	—	39
DIVISION No. 17. ATHABASCA		M	—	14	13	6	8	—	1	1	1	—	39
		F	—	7	9	9	9	2	1	—	2	—	22
	Urban	F	—	7	9	9	9	2	1	—	2	—	22
DIVISION No. 17. ATHABASCA		M	—	1	10	5	1	1	—	2	—	1	21
		F	2	9	7	—	1	—	1	—	1	—	21
	Rural	F	2	9	7	—	1	—	1	—	1	—	21

MARRIAGES DURING THE YEAR 1923—BY MONTHS

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Edmonton	76	52	61	88	77	81	85	84	71	69	103	134	981
Calgary	59	55	65	64	44	99	84	65	78	54	85	106	858
Lethbridge	23	15	12	16	10	22	20	18	20	19	33	37	245
Medicine Hat	12	12	8	10	7	8	7	5	7	15	24	20	135
Red Deer	4	5	4	3	3	5	7	4	4	5	5	6	55
Wetaskiwin	1	4	5	3	0	1	1	3	2	2	7	6	35
Drumheller	8	1	3	5	3	5	3	4	2	2	3	6	45
Rural Districts	174	139	97	147	117	141	157	123	78	106	204	234	1717
Indians	3	2	2	5	1	0	9	5	4	1	9	5	46
Total.....	360	285	257	341	262	362	373	311	266	273	473	554	4117

VITAL STATISTICS BRANCH

DIVORCES BY JUDICIAL DISTRICTS FOR THE YEAR 1923

JUDICIAL DISTRICTS	Number of Divorces	Granted to Husband	Granted to Wife
Edmonton	27	14	13
Calgary	47	33	14
Medicine Hat	4	2	2
Lethbridge	3	3	0
Red Deer	1	1	0
Wetaskiwin	3	2	1
Camrose	0	0	0
Stettler	0	0	0
Hanna	0	0	0
Macleod	2	1	1
Peace River	1	1	0
Grande Prairie	1	0	1
Total.....	89	57	32

NUMBER OF DEATHS BY AGE PERIODS FROM SELECTED CAUSES FOR THE WHOLE PROVINCE
(INDIANS EXCEPTED)

CAUSES OF DEATH	All ages	Under 1 year	1-4 years	5-9 years	10-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70-79 years	80 years and over
1 Typhoid and Paratyphoid Fever	43	—	1	4	1	2	10	12	5	7	1	—	—
6 Smallpox	25	13	4	7	1	—	—	—	—	—	—	—	—
7 Measles	44	9	10	9	9	5	—	—	—	—	—	—	—
8 Scarlet Fever	74	53	19	1	—	1	—	1	1	—	—	—	—
9 Whooping Cough	100	4	27	39	12	7	5	3	3	—	—	—	—
10 Diphtheria	272	61	24	12	7	15	14	41	21	21	19	26	11
11 Influenza	15	—	—	2	1	1	2	3	3	2	—	1	—
23 Lethargic Encephalitis	7	—	—	—	—	—	—	1	—	—	—	—	—
24 Meningococcus Meningitis	1	4	1	—	—	—	—	—	—	—	—	—	—
25 Other Epidemic or Endemic Diseases	1	1	—	—	—	—	—	—	—	—	—	—	—
31 Tuberculosis of the Respiratory System	222	15	10	4	9	17	61	43	38	10	10	4	1
32 Tuberculous Meningitis	21	3	7	3	2	2	1	3	—	—	—	—	—
33 Tuberculosis of the Intestine and Peritoneum	23	1	2	1	1	4	3	5	1	2	1	—	—
34/37 Other Tuberculous Diseases	29	1	3	2	3	—	3	5	9	2	—	—	—
43/49 Malignant Tumors	293	—	1	3	—	3	6	23	46	80	74	46	11
51 Acute Rheumatic Fever	33	1	2	6	6	1	8	5	4	—	4	1	—
71 Meningitis	17	7	2	3	—	—	1	3	—	—	—	—	—
74 Cerebral Hemorrhage, Apoplexy	95	1	1	1	—	—	1	1	16	16	22	22	14
87/90 Diseases of the Heart	363	1	—	5	—	6	15	27	36	60	93	69	42
91 Diseases of the Arteries	108	—	—	—	—	—	—	1	12	13	25	39	18
99 Bronchitis	48	23	6	1	—	—	—	—	1	2	3	6	6
100/101 Pneumonia (All Forms)	416	142	66	13	4	10	22	16	29	26	36	33	19
97/107 Diseases of the Respiratory System	65	10	3	4	2	—	5	1	6	7	12	9	6
113 Diarrhoea and Enteritis (Under 2 years of age)	208	182	26	—	—	—	—	—	—	—	—	—	—
117 Appendicitis and Typhlitis	125	7	7	29	18	15	8	17	12	9	7	1	—
120/24 Other Diseases of the Liver (Not Malignant)	46	2	1	1	—	1	1	6	8	13	8	4	1
128/29 Nephritis (Acute and Chronic)	163	4	2	1	6	6	8	14	18	31	33	29	11
146 Puerperal Septicaemia	26	—	—	—	—	2	7	14	3	—	—	—	—
143/50 Other Diseases and Accidents of Pregnancy	56	—	—	—	—	4	21	23	8	—	—	—	—
159/62 Diseases of Early Infancy and Malformations	618	616	2	—	—	—	—	—	—	—	—	—	—
165/74 Suicides	69	—	—	—	—	2	16	21	13	9	7	1	—
173/203 Other Violent Deaths	330	11	39	21	24	32	40	50	41	23	23	12	5
Other Defined Diseases	774	127	61	31	16	18	49	74	90	82	89	77	69
204/5 Ill-Defined or Unknown	114	78	9	1	2	1	—	—	4	5	9	4	1
Total	4843	1372	336	204	134	155	300	417	429	420	477	384	215

DEATHS IN DIVISIONS, 1923—BY MONTHS

DIVISIONS	DEATHS IN DIVISIONS, 1923—BY MONTHS												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
ALBERTA	422	406	526	472	435	358	366	365	370	375	415	333	4843
Rural.....	217	214	288	278	234	197	188	190	193	187	212	144	2542
Urban.....	205	192	238	194	201	161	178	175	177	188	203	189	2361
DIVISION No. 1. MEDICINE HAT	16	15	37	24	22	22	14	20	20	14	28	17	249
Rural.....	7	5	21	9	6	11	3	7	8	8	14	6	105
Urban.....	9	10	16	15	16	11	11	13	12	6	14	11	144
City of Medicine Hat.....	8	8	15	13	15	11	7	12	12	5	14	11	131
Town of Taber.....	1	2	1	2	1	0	4	1	0	1	0	0	13
DIVISION No. 2. MACLEOD	58	33	42	40	36	32	34	28	35	36	41	31	446
Rural.....	20	14	19	18	11	9	10	10	10	10	16	10	157
Urban.....	38	19	23	22	25	23	24	18	25	26	25	21	289
City of Lethbridge.....	27	9	14	10	13	13	13	9	10	12	18	12	160
Towns of Blairmore.....	2	1	0	1	2	3	2	2	1	3	2	0	19
Cardston.....	4	1	3	2	0	1	1	5	7	4	2	3	33
Coleman.....	2	1	4	0	1	2	4	0	3	1	0	2	20
Macleod.....	1	4	1	8	6	2	3	0	3	3	3	2	36
Magrath.....	1	1	1	1	1	0	0	1	1	3	0	1	12
Raymond.....	1	1	0	0	2	2	1	1	0	0	0	1	9
DIVISION No. 3. BOW	8	6	6	9	7	8	6	9	14	11	6	6	96
Rural.....	7	6	6	9	7	8	6	8	13	11	5	6	92
Urban.....	1	0	0	0	0	0	0	1	1	0	1	0	4
Town of Redcliffe.....	1	0	0	0	0	0	0	1	1	0	1	0	4
DIVISION No. 4. NANTON	3	13	11	11	5	6	12	11	10	8	8	5	103
Rural.....	2	11	9	10	3	6	9	6	10	5	5	4	80
Urban.....	1	2	2	1	2	0	3	5	0	3	3	1	23
Town of High River.....	1	2	2	1	2	0	3	5	0	3	3	1	23
DIVISION No. 5. ACADIA	26	19	24	15	15	22	24	19	22	16	23	13	238
Rural.....	20	9	15	12	13	12	9	7	10	10	11	5	133
Urban.....	6	10	9	3	2	10	15	12	12	6	12	8	105
City of Drumheller.....	5	8	6	3	2	7	12	7	9	1	9	8	77
Town of Hanna.....	1	2	3	0	0	3	3	5	3	5	3	0	28
DIVISION No. 6. CALGARY	79	60	115	78	102	73	74	71	75	70	70	72	939
Rural.....	21	20	31	24	34	25	21	25	23	24	23	15	286
Urban.....	58	40	84	54	68	48	53	46	52	46	47	57	653
City of Calgary.....	58	40	84	54	68	48	53	46	52	46	47	57	653
DIVISION No. 7. BATTLE RIVER	23	19	21	30	25	15	15	16	15	25	19	18	282
Rural.....	23	19	21	30	25	15	15	16	15	25	19	18	282

DEATHS IN DIVISIONS, 1923—BY MONTHS—Continued

DIVISIONS	January	February	March	April	May	June	July	August	September	October	November	December	Total
DIVISION No. 8. RED DEER													
Rural	38	44	68	52	40	31	45	36	35	40	46	28	503
Urban	14	18	34	20	23	13	27	23	16	17	21	12	248
City of Red Deer	24	26	34	22	17	18	18	13	19	23	25	16	255
City of Wetaskiwin	2	2	4	3	0	8	4	0	3	4	5	2	37
Towns of Big Valley	3	3	5	1	5	2	2	1	0	4	3	2	31
Camrose	2	0	1	2	0	1	0	0	0	1	3	1	14
Lacombe	6	6	3	7	4	0	0	2	3	3	2	2	38
Ponoka	5	1	7	2	4	2	4	3	2	0	3	3	38
Stettler	3	8	12	7	3	4	5	6	8	10	7	4	77
	3	3	2	0	1	1	4	1	3	1	2	2	23
DIVISION No. 9. ROCKY MOUNTAIN													
Rural	11	13	11	10	5	5	4	3	6	6	11	4	89
	11	13	11	10	5	5	4	3	6	6	11	4	89
DIVISION No. 10. VICTORIA													
Rural	36	36	38	38	36	32	28	28	27	39	37	25	400
Urban	29	34	32	35	30	31	25	26	24	25	29	22	342
Towns of Vegreville	7	2	6	3	6	1	3	2	1	14	8	3	58
Vermilion	6	1	5	2	3	1	3	1	3	5	3	3	38
	1	1	1	1	3	0	0	1	2	5	5	0	20
DIVISION No. 11. EDMONTON													
Rural	74	99	78	97	82	68	60	79	66	74	82	81	940
Urban	15	21	19	24	22	19	10	17	14	11	15	14	201
City of Edmonton	59	78	59	73	60	49	50	62	52	63	67	67	739
Town of Beverly	58	77	59	71	58	49	50	62	51	63	67	67	732
	1	1	0	2	2	0	0	0	1	0	0	0	7
DIVISION No. 12. EDSON													
Rural	4	4	9	9	1	3	4	6	5	2	2	1	50
Urban	4	2	6	8	0	3	4	6	5	2	1	1	42
Town of Edson	0	2	3	1	1	0	0	0	0	0	1	0	8
	0	2	3	1	1	0	0	0	0	0	1	0	8
DIVISION No. 13. BEAVER RIVER													
Rural	15	13	14	16	18	9	18	13	10	13	19	9	167
	15	13	14	16	18	9	18	13	10	13	19	9	167
DIVISION No. 14. STURGEON													
Rural	13	20	31	18	28	17	15	18	19	12	13	11	215
	13	20	31	18	28	17	15	18	19	12	13	11	215
DIVISION No. 15. CLEARWATER													
Rural	5	9	3	8	2	2	1	1	1	3	1	2	38
	5	9	3	8	2	2	1	1	1	3	1	2	38
DIVISION No. 16. PEACE RIVER													
Rural	8	12	12	14	8	9	10	4	5	6	7	9	104
Urban	6	9	10	14	4	8	9	1	4	5	7	4	81
Town of Grande Prairie	2	3	2	0	4	1	1	3	1	1	0	5	23
	2	3	2	0	4	1	1	3	1	1	0	5	23
DIVISION No. 17. ATHABASCA													
Rural	5	0	6	3	3	4	2	3	5	0	2	1	34
	5	0	6	3	3	4	2	3	5	0	2	1	34

BIRTH, MARRIAGE AND DEATH RATES, AND RATES OF NATURAL INCREASE PER 1,000 POPULATION
FROM THE YEAR 1912 TO 1923

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
Birth Rate	26.03	28.47	30.75	28.90	27.87	27.01	25.72	23.95	26.72	27.89	26.44	25.75
Marriage Rate	11.21	12.12	10.39	9.06	8.53	8.54	6.98	7.90	8.24	7.92	6.99	6.09
Death Rate	10.71	10.63	9.32	7.73	8.18	8.09	13.86	9.33	9.15	8.39	8.62	8.06
Rate of Natural Increase	15.32	17.84	21.43	21.26	18.69	18.92	11.86	14.62	17.57	19.50	17.83	18.75

DEATHS AND DEATH RATE FROM PUERPERAL CONDITIONS (INDIANS EXCEPTED)

	Births	Deaths from Puerperal Condition	Death Rate Per 1,000 Births
Whole Province	14,889	82	5.50
City of Edmonton	1,955	10	5.12
City of Calgary	1,679	6	3.51
Small Cities	1,108	12	10.83
Rural Districts	10,147	54	5.32

[illegible]

[illegible]

[illegible]

DEATHS DURING THE YEAR 1923—BY AGES AND SEXES, FOR THE WHOLE PROVINCE—Continued
(INDIANS EXCEPTED)

CAUSES OF DEATH	Sex	Under 1 yr.	1 year	2 years	3 years	4 years	Total under 5 years	5 to 9 yrs.	10-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70-79 years	80 years and over	Total
112 Other Diseases of the Stomach (Cancer excepted)	M	14	2	—	—	—	17	—	—	—	—	—	—	—	—	—	—	26
	F	13	2	—	—	—	15	—	—	—	—	—	—	—	—	—	—	22
113 Diarrhoea and Enteritis (under 2 years of age)	M	107	18	—	—	—	125	—	—	—	—	—	—	—	—	—	—	125
	F	75	8	—	—	—	83	—	—	—	—	—	—	—	—	—	—	83
114 Diarrhoea and Enteritis (2 years and over)	M	—	—	4	3	—	7	3	—	—	2	—	—	—	—	2	—	20
	F	—	—	5	1	—	7	4	1	—	—	1	—	—	—	3	—	17
115 Ankylostomiasis Intestinal Parasites (116)	M	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77
117 Appendicitis and Typhilitis	M	2	—	—	—	—	2	11	14	9	5	11	11	8	5	1	—	48
	F	1	—	—	—	—	7	18	4	6	3	6	1	1	2	—	—	8
118 (a) Hernia	M	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	5
	F	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	16
(b) Intestinal Obstruction	M	4	—	—	—	—	4	1	—	—	1	2	1	—	—	—	—	12
119 Other Diseases of the Intestines	M	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	2
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
122 Cirrhosis of the Liver	M	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	4
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5
123 Biliary Calculi (Gallstones)	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2
124 Other Diseases of the Liver	M	—	—	—	—	—	—	—	—	—	—	2	2	2	4	1	—	11
	F	2	—	—	—	—	3	1	—	—	—	3	1	3	2	1	—	16
125 Diseases of the Pancreas	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
126 Peritonitis without specified cause	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
	F	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1
127 Other Diseases of the Digestive System (Cancer and Tuberculosis excepted)	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
CLASS No. 7. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA	Total	7	—	—	1	—	9	2	6	7	13	27	28	40	43	38	19	232
	Male	3	—	—	—	—	3	2	4	1	5	11	16	14	31	31	12	130
	Female	4	—	—	1	—	6	—	2	6	8	16	12	26	12	7	7	102
128 Acute Nephritis (including Unspecified under 10 years)	M	1	—	—	—	—	1	—	3	—	2	—	4	2	—	—	—	15
	F	3	—	—	—	—	5	—	1	2	1	—	1	1	1	—	—	13
129 Chronic Nephritis (including Unspecified 10 years and over)	M	—	—	—	—	—	—	—	1	1	3	7	8	8	22	22	4	76
	F	—	—	—	—	—	—	—	1	—	2	6	5	20	10	6	6	59

	M	F	Total	% M.	% F.
130 Chyluria	—	—	—	—	—
131 Other Diseases of the Kidneys and Annexa (Diseases of the Kidneys in Pregnancy excepted)	1	1	2	50	50
132 Calculi of the Urinary Passages	—	—	—	—	—
133 Diseases of the Bladder	—	—	—	—	—
134 (a) Stricture of the Urethra	—	—	—	—	—
(b) Other Diseases of the Urethra.....	—	—	—	—	—
135 Diseases of the Prostate	—	—	—	—	—
136 Non-Venereal Diseases of the Male Genital Organs	1	—	1	100	0
137 Cysts and Other Non-Malignant Tumors of the Ovaries	—	—	—	—	—
138 Salpingitis and Pelvic Abscess	—	—	—	—	—
139 Non-Malignant Tumors of the Uterus	—	—	—	—	—
141 Other Diseases of the Female Genital Organs....	—	—	—	—	—
CLASS No. 8. THE PUERPERAL STATE... Total.... Female					
143 (a) Abortion, Miscarriage	—	—	—	—	—
(b) Uncontrollable Vomiting	—	—	—	—	—
(c) Other Accidents of Pregnancy	—	—	—	—	—
144 Puerperal Hemorrhage	—	—	—	—	—
145 (a) Caesarean Section	—	—	—	—	—
(c) Other Accidents of Labor	—	—	—	—	—
146 Puerperal Septicaemia	—	—	—	—	—
147 Puerperal Phlegmasia, Alba Dolens, Embolus, Sudden Death	—	—	—	—	—
148 Puerperal Albuminuria and Convulsions	—	—	—	—	—
149 Following Childbirth (not otherwise defined)....	—	—	—	—	—

[illegible]

[illegible]

CAUSES OF DEATH DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
FOR THE WHOLE PROVINCE (INDIANS EXCEPTED)

Sex	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
ALL CAUSES												
Total.....	2919	735	541	631	17	4843	2709	1657	449	13	23	4843
Male.....	1645	420	288	389	16	2758	1638	866	212	10	22	2758
Female.....	1274	315	253	242	1	2085	1071	791	237	3	1	2085
CLASS No. 1.—GENERAL DISEASES												
Total.....	602	117	111	121	2	953	613	290	45	—	5	953
Male.....	310	64	58	70	2	504	341	134	25	—	4	504
Female.....	292	53	53	51	—	449	272	156	20	—	1	449
1 (a) Typhoid Fever	14..	4	10	13	1	42	22	19	1	—	—	42
(b) Paratyphoid Fever	—	1	—	—	—	1	—	—	—	—	—	1
6 Smallpox	23	—	—	—	—	25	25	—	—	—	—	25
7 Measles	38	2	1	1	—	44	42	2	—	—	—	44
8 Scarlet Fever	70	2	2	2	—	74	74	—	—	—	—	74
9 Whooping Cough	91	2	4	3	—	100	97	3	—	—	—	100
10 Diphtheria	107	24	29	17	—	177	101	61	14	—	1	177
11 (a) Influenza, with Pulmonary Complications specified	50	16	17	12	—	95	44	41	9	—	1	95
(b) Influenza, without Pulmonary Complications specified	3	—	—	—	—	3	3	—	—	—	—	3
13 Mumps	24	—	3	—	—	27	23	1	3	—	—	27
16 (c) Dysentery (Unspecified)	4	4	1	—	—	9	4	3	2	—	—	9
21 Erysipelas	1	—	—	—	—	1	1	—	—	—	—	1
22 Infantile Paralysis	5	2	3	5	—	15	4	4	3	—	—	15
23 Lethargic Encephalitis	7	—	—	—	—	7	6	1	—	—	—	7
24 Meningococcus Meningitis	—	—	—	—	—	—	—	—	—	—	—	—
25 (a) Chicken-pox	1	—	—	—	—	1	1	—	—	—	—	1
25 (b) German Measles	1	—	—	—	—	1	1	—	—	—	—	1
29 Tetanus	1	—	—	—	—	1	1	—	—	—	—	1
31/37 Tuberculosis	149	52	32	61	1	295	146	138	10	—	1	295
Total.....												
31 Tuberculosis of the Respiratory System	108	43	23	47	1	222	103	112	6	—	1	222
32 Tuberculous Meningitis	15	2	1	3	—	21	18	2	1	—	—	21
33 Tuberculosis of the Intestines and Peritoneum	14	1	2	6	—	23	13	10	—	—	—	23
34 Tuberculosis of the Vertebral Column	—	3	3	1	—	7	3	4	—	—	—	7
35 Tuberculosis of the Joints	2	—	—	—	—	2	—	2	—	—	—	2
36 (a) Tuberculosis of the Skin and Subcutaneous Cellular Tissue	1	—	—	—	—	1	—	1	—	—	—	1
(b) Tuberculosis of the Bones (Vertebral Column excepted)	1	—	—	—	—	1	—	1	—	—	—	1
(c) Tuberculosis of the Lymphatic System (Abdominal Glands excepted)	2	—	—	—	—	2	—	2	—	—	—	2
(d) Tuberculosis of the Genito-Urinary System	1	—	—	—	—	1	—	1	—	—	—	1
(e) Tuberculosis of Organs other than above	2	2	1	1	—	6	1	3	2	—	—	6
	1	—	—	—	—	1	—	—	—	—	—	1

[illegible]

70	Encephalitis	6	2	1	2	—	11	7	4	—	—	—	11
71	(a) Simple Meningitis	12	2	1	1	—	16	12	4	—	—	—	16
	(b) Non-Epidemic Cerebro-Spinal Meningitis	1	—	—	—	—	1	1	—	—	—	—	1
72	Tapes Dorsalis (Locomotor Ataxia)	—	1	1	—	—	2	—	1	1	—	2	2
73	Other Diseases of the Spinal Column	11	2	3	5	—	21	7	—	—	—	—	21
74	(a) Cerebral Hemorrhage and Apoplexy	32	15	14	10	—	71	6	45	20	—	—	71
	(b) Cerebral Thrombosis and Embolism	10	2	7	5	—	24	4	13	7	—	—	24
75	(a) Hemiplegia	1	—	—	1	—	5	3	—	2	—	—	5
	(b) Paralysis otherwise defined	6	3	1	2	—	12	4	6	2	—	—	12

CAUSES OF DEATH DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
FOR THE WHOLE PROVINCE (INDIANS EXCEPTED)—Continued

Sex	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
76 General Paralysis of the Insane	2	4	1	4	—	11	3	6	1	—	—	11
77 Other Forms of Mental Alienation	3	6	—	1	—	10	3	4	3	—	—	10
78 Epilepsy	10	2	2	3	—	17	11	5	1	—	—	17
79 Convulsions (Non-Puerperal) (5 years and over)	—	—	1	—	—	1	1	—	—	—	—	1
80 Infantile Convulsions (under 5 years of age)	26	—	—	—	—	26	26	—	—	—	—	26
81 Chorea	1	—	1	—	—	2	1	—	—	—	—	2
82 Neuralgia and Neuritis	2	3	1	1	—	7	—	3	4	—	—	7
83 Softening of the Brain	1	—	—	—	—	1	—	—	—	—	—	1
84 Other Diseases of the Nervous System	11	7	1	2	—	21	7	12	2	—	—	21
85 Diseases of the Eye and Annexa	—	—	—	—	—	—	—	—	—	—	—	—
86 (a) Diseases of the Ear	8	2	—	5	—	15	13	2	—	—	—	15
(b) Diseases of the Mastoid Process	1	—	—	2	—	3	2	1	—	—	—	3
CLASS No. 4. DISEASES OF THE CIRCULATORY SYSTEM	177	127	77	102	2	485	92	270	116	4	3	485
Total	101	77	49	58	2	287	72	162	47	3	3	287
Male	76	50	28	44	—	198	20	108	69	1	—	198
Female	—	—	—	—	—	—	—	—	—	—	—	—
87 Pericarditis	1	1	1	—	—	3	1	2	—	—	—	3
88 Endocarditis and Myocarditis (Acute)	19	9	6	8	—	42	16	19	6	—	1	42
89 Angina Pectoris	7	7	—	6	—	24	5	15	4	—	—	24
90 Other Diseases of the Heart	102	80	46	64	2	294	49	169	73	2	1	294
91 (a) Aneurism of the Arteries	3	1	2	2	—	8	3	4	1	—	—	8
(b) Arteriosclerosis	39	22	15	21	—	97	11	52	31	2	1	97
(c) Other Diseases of the Arteries	—	2	1	—	—	3	—	2	1	—	—	3
92 Embolism Thrombosis (Not Cerebral)	2	3	1	1	—	7	3	4	—	—	—	7
93 Diseases of the Veins (Varices, Hemorrhoids, Phlebitis, etc.)	1	1	1	—	—	3	1	2	—	—	—	3
94 Diseases of the Lymphatic System (Lymphangitis, etc.)	3	—	—	—	—	3	3	—	—	—	—	3
95 Hemorrhage without specified cause	—	1	—	—	—	1	—	—	—	—	—	1
CLASS No. 5. DISEASES OF THE RESPIRATORY SYSTEM	363	70	37	57	2	529	325	141	61	1	1	529
Total	202	43	14	35	2	296	192	72	30	1	1	296
Male	161	27	23	22	—	233	133	69	31	—	—	233
Female	—	—	—	—	—	—	—	—	—	—	—	—
Diseases of the Larynx	11	—	—	1	—	12	10	1	1	—	—	12
99 (a) Bronchitis, Acute	13	1	—	1	—	15	12	1	2	—	—	15
(b) Bronchitis, Chronic	5	1	—	4	—	10	8	5	2	—	—	10
(c) Bronchitis not otherwise defined (under 5 years of age)	15	—	—	—	—	15	15	—	—	—	—	15
(d) Bronchitis not otherwise defined (5 years and over)	1	4	2	1	—	8	2	4	2	—	—	8
100 (a) Bronchopneumonia	141	18	7	4	—	170	135	20	15	—	—	170
(b) Capillary Bronchitis	2	—	—	—	—	2	2	—	—	—	—	2

101 (a) Lobar Pneumonia	95	30	19	31	2	177	74	77	24	1	1	177
102 (b) Pneumonia not otherwise defined	57	4	4	3	—	67	54	10	3	—	—	67
103 Pleurisy	6	3	2	1	—	12	7	7	1	—	—	12
104 Congestion and Hemorrhagic infarct of the Lung	5	3	1	3	—	12	5	3	4	—	—	12
104 Gangrene of the Lung	—	1	—	—	—	1	—	1	—	—	—	1
105 Asthma	4	5	2	6	—	17	3	10	4	—	—	17
106 (a) Interstitial Pneumonia	—	5	—	1	—	1	—	1	—	—	—	1
107 (c) Other Diseases of the Respiratory System	8	1	—	1	—	10	6	1	3	—	—	10
CLASS No. 6. DISEASES OF THE DIGESTIVE SYSTEM	405	71	51	36	—	563	414	130	17	2	—	563
Total	227	42	33	22	—	324	179	45	14	1	—	324
Male	178	29	18	14	—	239	179	45	14	1	—	239
Female	2	1	2	3	—	4	3	1	—	—	—	4
108 Diseases of the Mouth and Annexa	17	—	—	—	—	22	19	2	1	—	—	22
109 (a) Diseases of Tonsils and Pharynx	3	4	5	—	—	13	2	9	2	—	—	13
110 Diseases of the Oesophagus	3	—	—	1	—	8	2	6	—	—	—	8
111 (a) Ulcer of the Stomach	1	5	—	2	—	48	33	14	—	1	—	48
111 (b) Ulcer of the Duodenum	36	6	3	3	—	208	208	—	—	—	—	208
112 Other Diseases of the Stomach (Cancer excepted)	205	1	1	1	—	37	26	8	2	1	—	37
113 Diarrhoea and Enteritis (under 2 years of age)	23	8	4	2	—	1	1	—	—	—	—	1
114 Diarrhoea and Enteritis (2 years and over)	1	—	—	—	—	125	81	42	2	—	—	125
115 Ankylostomiasis, Intestinal Parasites (116)	70	26	20	9	—	13	5	6	2	—	—	13
117 Appendicitis and Typhlitis	6	5	1	1	—	28	11	14	3	—	—	28
118 (a) Hernia	17	5	2	4	—	3	2	—	—	—	—	3
118 (b) Intestinal Obstruction	2	—	—	—	—	9	2	6	1	—	—	9
119 Other Diseases of the Intestines	2	3	3	1	—	13	7	5	—	—	—	13
122 Cirrhosis of the Liver	4	3	3	3	—	24	7	14	3	—	—	24
123 Biliary Calculi (Gallstones)	12	3	4	5	—	1	1	—	—	—	—	1
124 Other Diseases of the Liver	—	1	1	—	—	4	—	2	—	—	—	4
125 Diseases of the Pancreas	2	1	—	—	—	1	—	—	—	—	—	1
126 Peritonitis without specified cause	—	—	—	—	—	1	—	—	—	—	—	1
127 Other Diseases of the Digestive System (Cancer and Tuberculosis excepted)	1	—	—	—	—	1	—	1	—	—	—	1
CLASS No. 7. NON-GENITAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA	85	65	42	38	1	232	60	136	35	1	—	232
Total	48	37	22	21	2	130	44	55	20	1	—	130
Male	37	28	20	17	—	102	16	81	15	—	—	102
Female	15	6	5	2	—	28	18	7	3	—	—	28
128 Acute Nephritis (including unspecified under 10 years)	48	38	22	25	2	135	29	81	24	1	—	135
129 Chronic Nephritis (including unspecified 10 years and over)	1	—	—	—	—	1	—	1	—	—	—	1
130 Chyluria	6	5	—	1	—	12	4	7	1	—	—	12
131 Other Diseases of the Kidneys and Annexa (Diseases of the Kidneys in Pregnancy excepted)	2	—	1	1	—	4	—	4	—	—	—	4
132 Calculi of the Urinary passages	1	3	1	1	—	4	1	2	—	—	—	4
133 Diseases of the Bladder	—	2	1	1	—	3	1	1	—	—	—	3
134 (a) Stricture of the Urethra	1	3	4	4	—	18	2	11	5	—	—	18
134 (b) Other Diseases of the Urethra	7	—	—	—	—	1	—	—	—	—	—	7
135 Diseases of the Prostate	1	—	—	—	—	1	—	—	—	—	—	1
136 Non-Veneral Diseases of the Male Genital Organs	2	2	3	1	—	8	1	7	—	—	—	8
137 Cysts and Other Non-Malignant Tumors of the Ovary	2	1	—	—	—	6	—	6	—	—	—	6
138 Salpingitis and Pelvic Abscess	1	2	2	1	—	6	—	5	—	—	—	6
139 Non-Malignant Tumors of the Uterus	—	4	2	—	—	1	—	—	—	—	—	1
141 Other Diseases of the Female Genital Organs	—	1	—	—	—	—	—	—	1	—	—	—

CAUSES OF DEATH DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
FOR THE WHOLE PROVINCE (INDIANS EXCEPTED) —Continued

Sex	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
CLASS No. 8. THE PUERPERAL STATE	27	14	21	20	—	82	2	80	—	—	—	82
143 (a) Abortion, Miscarriage	2	1	4	2	—	9	—	9	—	—	—	9
(b) Uncontrollable Vomiting	2	2	1	—	—	5	—	5	—	—	—	5
(c) Accidents of Pregnancy	1	—	—	1	—	2	—	2	—	—	—	2
144 Puerperal Hemorrhage	1	2	2	—	—	7	—	7	—	—	—	7
145 (a) Caesarean Section	—	—	—	1	—	1	—	1	—	—	—	1
(c) Other Accidents of Labour	2	1	3	—	—	9	—	9	—	—	—	9
146 Puerperal Septicaemia	11	2	6	7	—	26	1	25	—	—	—	26
147 Puerperal Phlegmasia, Alba Dolens, Embolus, Sudden Death	1	2	1	—	—	4	—	4	—	—	—	4
148 Puerperal Albuminuria and Convulsions	6	4	4	—	—	18	1	17	—	—	—	18
149 Following Childbirth (not otherwise defined)	1	—	—	—	—	1	—	1	—	—	—	1
CLASS No. 9. DISEASES OF THE SKIN AND CELLULAR TISSUE	8	2	2	4	—	16	6	8	1	—	1	16
151 Gangrene	5	1	2	2	—	10	3	5	1	—	1	10
152 Furuncle	3	1	—	—	—	6	3	3	—	—	—	6
153 Acute Abscess	2	—	—	4	—	6	2	2	—	—	1	6
154 Other Diseases of the Skin	3	1	2	—	—	5	2	3	—	—	—	5
CLASS No. 10. DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION	11	3	—	3	—	17	10	5	1	—	1	17
155 Diseases of the Bones (Tuberculosis excepted)	9	2	—	1	—	12	8	3	1	—	1	12
156 Diseases of the Joints (Tuberculosis and Rheumatism excepted)	2	1	—	2	—	5	2	2	1	—	—	5
158 Other Diseases of the Organs of Locomotion	10	3	—	2	—	15	9	4	1	—	1	15
159 Diseases of the Joints (Tuberculosis and Rheumatism excepted)	1	—	—	—	—	1	1	—	—	—	—	1
158 Other Diseases of the Organs of Locomotion	—	—	—	1	—	1	—	1	—	—	—	1
CLASS No. 11. MALFORMATIONS	105	—	1	—	—	106	106	—	—	—	—	106
159 Congenital Malformation—	57	—	—	—	—	57	57	—	—	—	—	57
(a) Hydrocephalus	48	—	1	—	—	49	49	—	—	—	—	49
(b) Congenital Malformations of the Heart	7	—	—	—	—	7	7	—	—	—	—	7
(c) Others under this title	55	—	1	—	—	56	56	—	—	—	—	56
	43	—	—	—	—	43	43	—	—	—	—	43

CLASS No. 12.	EARLY INFANCY	Total. Male..... Female....	514 299 215
160	Congenital Debility, Icterus and Sclerema		
161	(a) Premature Birth		
161	(b) Injury at Birth		
162	Other Diseases peculiar to Early Infancy.....		
163	Lack of Care		
514			514
299			299
215			215
CLASS No. 13.	OLD AGE	Total.....	
164	Senility		
514			514
299			299
215			215
CLASS No. 14.	EXTERNAL CAUSES	Total.....	
165	Suicide by Solid or Liquid Poisons (Corrosive Substances excepted)		
168	Suicide by hanging or strangulation.....		
170	Suicide by drowning		
170	Suicide by firearms		
171	Suicide by cutting or piercing instruments		
172	Suicide by jumping from high places.....		
173	Suicide by crushing		
174	Other Suicides		
175	Poisoning by Food		
177	Other Acute Accidental Poisoning (Gas excepted).....		
178	Conflagration		
179	Accidental Burns (Conflagration excepted)		
180	Accidental Suffocation, Overlaying		
181	Exposure to Poisonous Vapours		
182	Accidental Drowning		
183	Accidents by firearms (wounds of war excepted).....		
184	Accidents by cutting or piercing instruments		
185	Accidents by Falls		
186	(a) Accidents in Mines		
187	Accidents by Machines		
188	(a) Railroad Accidents		
188	(b) Street Car Accidents		
188	(c) Automobile Accidents		
188	(d) Aeroplane or Balloon Accidents		
188	(e) Injuries by other Vehicles		
188	(f) Landslides and Other Crushings		
189	Injuries by animals (not poisoning)		
193	Excessive Cold		
195	Lightning		
196	Accidental Electric Shocks		
197	Homicide by firearms		
198	Homicide by cutting or piercing instruments		
199	Homicide by other means		
202	Other External Violence (cause specified)		

CAUSES OF DEATH DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
FOR THE WHOLE PROVINCE (INDIANS EXCEPTED)—Continued

CLASS No. 15. ILL-DEFINED DISEASES	Sex	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
	Total.....	92	2	6	13	1	114	96	12	6	—	—	114
	Male.....	52	2	3	8	1	65	55	6	4	—	—	65
	Female...	41	—	3	5	—	49	41	6	2	—	—	49
204 Sudden Death		2	1	—	1	—	4	1	2	1	—	—	4
205 (a) Cause of Death ill-defined		37	1	6	8	—	52	41	7	4	—	—	52
(b) Cause of Death not specified or unknown.....		53	—	—	4	1	58	54	3	1	—	—	58

CAUSES OF DEATH DURING THE YEAR 1923—BY MONTHS FOR THE WHOLE PROVINCE—Continued
(INDIANS EXCEPTED)

	January	February	March	April	May	June	July	August	September	October	November	December	Total
(d) Tuberculosis of the Genito-Urinary System	1	1	—	—	—	—	—	2	1	—	1	—	6
(e) Tuberculosis of Organs other than above.....	—	—	1	—	—	—	—	—	—	—	—	—	1
37 (a) Disseminated Tuberculosis (Acute)	—	—	1	—	—	—	1	1	—	—	1	1	2
(b) Disseminated Tuberculosis (Chronic)	—	—	5	2	4	—	2	2	—	2	—	8	5
38 Syphilis	2	1	—	3	1	—	1	1	1	2	—	—	23
41 Purulent Infection, Septicaemia	2	1	—	—	—	1	—	—	—	—	—	—	13
CLASS No. 2. GENERAL DISEASES NOT INCLUDED													
Male.....	38	34	46	37	45	42	45	38	37	41	42	35	480
Female.....	19	18	24	14	26	19	20	21	19	19	26	15	240
Total.....	19	16	22	23	19	23	25	17	18	22	16	20	240
43 / 49 Cancer	24	19	26	20	24	31	28	25	20	28	27	21	293
43 Cancer and Other Malignant Tumors of the Buccal Cavity.....	1	1	3	—	3	2	3	—	—	—	1	3	17
44 Cancer and Other Malignant Tumors of the Stomach and Liver.....	10	6	9	11	11	12	11	10	8	13	12	6	119
45 Cancer and Other Malignant Tumors of the Peritoneum, Intestines and Rectum	5	4	3	1	5	5	2	3	3	8	7	4	50
46 Cancer and Other Malignant Tumors of the Female Genital Organs	—	1	2	3	2	3	2	3	1	2	1	1	21
47 Cancer and Other Malignant Tumors of the Breast.....	3	3	5	2	2	2	3	1	2	—	1	2	26
48 Cancer and Other Malignant Tumors of the Skin.....	1	—	1	2	—	—	—	—	1	—	—	—	5
49 Cancer and Other Malignant Tumors of Other or Unspecified Organs	4	4	3	1	1	7	7	8	5	5	5	5	55
50 Benign Tumors and Tumors Non-Malignant (Female Genital Organs excepted)	1	1	—	—	—	—	1	1	—	—	—	—	4
51 Acute Rheumatic Fever	—	4	4	2	3	3	6	2	1	2	3	2	33
52 Chronic Rheumatism, Osteoarthritis, Gout	2	1	1	2	1	1	1	1	1	—	2	1	13
56 Rickets	—	—	2	1	1	1	1	—	1	—	1	—	8
57 Diabetes Mellitus	2	1	2	2	5	1	3	5	7	4	2	4	38
58 (a) Pernicious Anaemia	4	2	3	1	4	2	—	—	2	2	4	2	26
(b) Other Anaemias and Chlorosis	—	—	—	—	—	—	—	—	—	—	—	—	1
60 (a) Exophthalmic Goiter	1	2	—	3	3	—	2	1	3	1	—	1	14
(b) Other Diseases of the Thyroid Gland	—	—	1	1	2	—	1	—	—	—	—	—	9
63 Diseases of the Adrenals (Addison's Disease)	1	—	1	—	—	—	—	—	—	—	1	—	1
64 Diseases of the Spleen	—	—	—	—	—	—	—	—	—	—	—	—	1
65 (a) Leukaemia	1	—	3	—	—	—	—	—	3	—	2	1	10
(b) Hodgkin's Disease	—	—	—	—	—	—	—	—	—	—	—	—	1
66 Alcoholism (Acute or Chronic)	—	2	1	2	—	1	1	—	—	—	1	—	2
67 (a) Chronic Lead Poisoning.....	—	—	—	—	—	—	—	—	—	—	—	—	12
68 Chronic Poisoning by Organic Substances	—	1	1	—	—	—	—	—	—	—	—	—	1
69 Other General Diseases	2	1	1	2	—	2	1	1	—	—	—	1	13

[illegible]

CAUSES OF DEATH DURING THE YEAR 1923—BY MONTHS FOR THE WHOLE PROVINCE—Continued
(INDIANS EXCEPTED)

	January	February	March	April	May	June	July	August	September	October	November	December	Total
CLASS No. 12. EARLY INFANCY													
Total.....	52	48	35	51	48	43	46	42	30	31	42	46	514
Male.....	32	25	15	29	33	24	27	28	23	15	26	22	299
Female.....	20	23	20	22	15	19	19	14	7	16	16	24	215
160 Congenital Debility, Icterus and Sclerema	16	10	9	10	9	8	5	12	9	9	13	9	119
161 (a) Premature Birth	30	31	20	36	28	24	35	23	16	13	16	27	299
(b) Injury at Birth	3	2	3	2	8	5	2	3	3	6	5	6	48
162 Other Diseases peculiar to early infancy	3	4	3	3	3	5	4	4	2	3	8	4	46
163 Lack of Care	—	1	—	—	—	1	—	—	—	—	—	—	2
CLASS No. 13. OLD AGE													
Total.....	5	6	10	6	7	6	2	5	3	11	11	4	76
Male.....	4	4	5	4	3	1	1	3	2	6	5	2	40
Female.....	1	2	5	2	4	5	1	2	1	5	6	2	36
164 Senility	5	6	10	6	7	6	2	5	3	11	11	4	76
CLASS No. 14. EXTERNAL CAUSES													
Total.....	20	21	37	31	29	41	52	45	29	30	44	20	399
Male.....	17	19	29	25	21	36	43	35	25	26	36	17	329
Female.....	3	2	8	6	8	5	9	10	4	4	8	3	70
165 Suicide by Solid or Liquid Poisons (Corrosive Substances excepted)	—	—	1	1	3	—	2	—	—	—	2	1	10
168 Suicide by hanging or strangulation	—	2	1	1	—	2	1	1	1	2	1	1	12
169 Suicide by drowning	—	—	—	1	—	2	—	1	1	—	1	—	7
170 Suicide by firearms	1	1	8	5	1	2	3	2	1	1	1	—	26
171 Suicide by cutting or piercing instruments.....	—	—	1	—	2	1	2	1	—	1	1	—	9
172 Suicide by jumping from high places.....	—	—	1	—	—	—	—	—	—	—	—	—	1
173 Suicide by crushing	—	—	—	—	—	—	—	—	—	1	—	—	1
174 Other Suicides	1	—	—	—	1	—	—	1	—	—	—	—	3
175 Poisoning by food	—	—	—	—	—	—	—	—	—	—	—	—	6
176 Poisoning by drink	—	—	—	—	—	—	—	—	2	—	—	—	2
177 Other acute accidental poisoning (Gas excepted)	—	1	2	2	1	—	1	1	—	—	2	1	7
178 Conflagration	4	2	5	1	1	—	1	—	1	—	—	—	6
179 Accidental burns (Conflagration excepted)	1	1	1	—	—	2	2	—	—	2	4	1	22
180 Accidental Suffocation, Overlaying	1	1	1	1	1	—	1	1	—	—	7	2	17
181 Exposure to poisonous vapours	—	—	—	—	—	—	—	—	—	—	1	—	2
182 Accidental drowning	—	—	—	—	—	11	21	9	3	—	—	—	48
183 Accidents by firearms (wounds of war excepted).....	1	2	1	3	1	2	1	5	2	1	—	1	21
184 Accidents by cutting or piercing instruments.....	—	—	—	—	—	2	—	—	—	—	—	—	2
185 Accidents by falls	3	4	3	2	—	3	4	5	—	—	6	1	44
186 (a) Accidents in mines	2	1	1	1	2	1	7	—	1	3	1	1	21

[illegible]

CLASS No. 2. GENERAL DISEASES NOT INCLUDED ABOVE	M	F	Total	Male	Female
33 Tuberculosis of the Intestine and peritoneum	1	1	2	1	1
34 Tuberculosis of the vertebral column	1	1	2	1	1
35 Tuberculosis of the joints	1	1	2	1	1
37 (b) Disseminated Tuberculosis, Chronic	1	1	2	1	1
38 Syphilis	3	1	4	3	1
41 Purulent infection Septicaemia	1	1	2	1	1
43/50 Cancer	5	4	9	5	4
44 Cancer and other malignant tumors of the stomach and liver	1	1	2	1	1
45 Cancer and other malignant tumors of the peritoneum intestines and rectum	1	1	2	1	1
46 Cancer and other malignant tumors of the female genital organs	1	1	2	1	1
47 Cancer and other malignant tumors of the breast	1	1	2	1	1
49 Cancer and other malignant tumors of other or unspecified organs	1	1	2	1	1
51 Acute Rheumatic fever	1	1	2	1	1
56 Rickets	2	1	3	2	1
57 Diabetes mellitus	1	1	2	1	1
58 (a) Pernicious anaemia	1	1	2	1	1
60 (a) Exophthalmic goitre	1	1	2	1	1
60 (b) Other diseases of the thyroid gland	1	1	2	1	1
65 (a) Leukaemia	1	1	2	1	1
66 Alcoholism (acute or chronic)	1	1	2	1	1
69 Other general diseases	2	1	3	2	1

90 Other diseases of the heart	M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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CAUSES OF DEATH DURING THE YEAR 1923—BY AGES AND SEXES—Continued

FOR THE CITY OF EDMONTON

[illegible]

[illegible]

RECEIVED
FEB 17 1925
REGISTRATION
VICTORIA, B.C.

CLASS No. 15. ILL-DEFINED	Total	Male	Female
178 Congregation	1	1	
179 Accidental burns (Conflagration excepted)	1	1	
182 Accidental drowning	1	1	
183 Accidental traumatism by firearms (Wounds of war excepted)	1	1	
185 Accidental traumatism by fall	1	1	
186 (a) Accidents in Mines	1	1	
187 Accidents by machines	1	1	
188 (a) Railroad accidents	1	1	
188 (b) Street car accidents	1	1	
188 (c) Automobile accidents	1	1	
188 (e) Injuries by other vehicles	1	1	
188 (f) Landslides, and other crushings	1	1	
189 Injuries by animals (not poisoning)	1	1	
197 Homicide by firearms	1	1	
199 Homicide by other means	1	1	
202 Other external violence	1	1	
205 (b) Not specified or unknown	1	1	

TOTAL DEATHS DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
CITY OF EDMONTON

	British	Canadian	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
ALL CAUSES	Total Male..... Female....	147 83 64	78 33 45	60 41 19	9 9 —	732 414 318	391 232 139	268 123 145	63 30 33	2 1 1	8 8 —	732 414 318

TOTAL DEATHS DURING THE YEAR 1923—BY MONTHS
CITY OF EDMONTON

	January	February	March	April	May	June	July	August	September	October	November	December	Total
ALL CAUSES	Total Male..... Female....	77 35 42	59 30 29	71 38 33	58 38 20	49 24 25	50 32 18	62 36 26	51 30 21	63 37 26	67 42 25	67 36 31	732 414 318

CLASS No. 3. DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	Total		Male		Female	
	No.	%	No.	%	No.	%
58 (a) Pernicious anaemia	1	100	1	100	0	0
60 (a) Exophthalmic goitre	1	100	1	100	0	0
(b) Other diseases of the thyroid gland	1	100	1	100	0	0
63 Diseases of the adrenals (Addison's disease)	1	100	1	100	0	0
64 Diseases of the spleen	1	100	1	100	0	0
65 (a) Leukaemia	1	100	1	100	0	0
66 Alcoholism (acute or chronic)	1	100	1	100	0	0
67 (a) Chronic lead poisoning	1	100	1	100	0	0
69 Other general diseases	1	100	1	100	0	0
70 Encephalitis	2	100	2	100	0	0
71 (a) Simple Meningitis	2	100	2	100	0	0
(b) Non-epidemic, cerebro-spinal Meningitis	1	100	1	100	0	0
73 Other diseases of the spinal cord	1	100	1	100	0	0
74 (a) Cerebral hemorrhage, apoplexy	1	100	1	100	0	0
(b) Cerebral Thrombosis and Embolism	1	100	1	100	0	0
77 Other forms of mental alienation	1	100	1	100	0	0
78 Epilepsy	1	100	1	100	0	0
80 Infantile convulsions (under 5 years of age)	1	100	1	100	0	0
81 Chorea	1	100	1	100	0	0
84 Other diseases of the nervous system	1	100	1	100	0	0
86 (a) Diseases of the ear	1	100	1	100	0	0
(b) Diseases of the mastoid process	1	100	1	100	0	0

[illegible]

CLASS No.	10.	DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.....	Total Male	Female
155	Diseases of the bones (Tuberculosis excepted).....	M	1	—
		F	—	1
CLASS No. 11.	MALFORMATIONS	14	6	8
159	Congenital malformation—			
(a)	Hydrocephalus	M	—	—
		F	5	—
(b)	Congenital malformation of the heart.....	M	1	—
		F	1	—
(c)	Others under this title	M	7	—
		F	—	—
CLASS No. 12.	EARLY INFANCY	61	36	25
160	Congenital debility, icterus and sclerema	M	4	—
		F	5	—
161	(a) Premature birth	M	22	—
		F	13	—
161	(b) Injury at birth	M	4	—
		F	5	—
162	Other diseases peculiar to early infancy	M	6	—
		F	2	—
CLASS No. 13.	OLD AGE	Total	—	—
164	Senility	M	—	—
		F	—	—
CLASS No. 14.	EXTERNAL CAUSE	Total	—	—
		Male	1	2
		Female	1	1
170	Suicide by firearms	M	—	—
		F	—	—
171	Suicide by cutting or piercing instruments.....	M	—	—
		F	—	—
173	Suicide by crushings	M	—	—
		F	—	—
177	Other acute accidental poisonings (gas excepted).....	M	—	—
		F	—	—
179	Accidental burns (conflagration excepted).....	M	1	—
		F	—	—
182	Accidental drowning	M	—	—
		F	—	—

TOTAL DEATHS DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
FOR THE CITY OF CALGARY

	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
ALL CAUSES OF DEATH	Total.....	172	62	54	2	653	320	243	83	2	5	653
	Male.....	91	37	36	1	356	187	134	30	2	3	356
	Female....	81	25	18	1	297	133	109	53	—	2	297

TOTAL DEATHS DURING THE YEAR 1923—BY MONTHS
FOR THE CITY OF CALGARY

	January	February	March	April	May	June	July	August	September	October	November	December	Total
ALL CAUSES	Total.....	40	84	54	68	48	53	46	52	46	47	57	653
	Male.....	17	34	29	36	27	30	23	33	24	37	30	356
	Female....	23	50	25	32	21	23	23	19	22	10	27	297

[illegible]

CLASS No. 7. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA	Total	Male	Female
128 Acute Nephritis (including unspecified under 10 yrs)	M		
	F		
129 Chronic Nephritis (including unspecified 10 yrs. and over)	M		
	F		
131 Other diseases of the kidneys and annexa (diseases of the kidneys during pregnancy excepted)	M		
	F		
137 Cysts and other benign tumors of the ovary	F		
139 Non-malignant tumors of the uterus	F		
CLASS No. 8. THE PUERPERAL STATE	Total	Females	
144 Puerperal hemorrhage	F		
146 Puerperal septicaemia	F		
148 Puerperal albuminuria and convulsions	F		
CLASS No. 9. DISEASES OF THE SKIN AND CELLULAR TISSUE	Total	Male	Female
151 Gangrene	M		
	F		
154 Other diseases of the skin and annexa	M		
	F		
CLASS No. 11. MALFORMATIONS	Total	Male	Female
159 Congenital malformations	11	4	7
(a) Hydrocephalus	M		
	F		
(b) Congenital malformation of heart	M		
	F		
(c) Others under this title	M		
	F		
CLASS No. 12. EARLY INFANCY	Total	Male	Female
160 Congenital debility, icterus and scelerema	12	9	3
	M		
	F		

TOTAL DEATHS DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
FOR CITY OF LETHBRIDGE

	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
ALL CAUSES	Total	28	29	23	—	160	75	67	18	—	—	160
Male.....	45	14	15	16	—	90	43	35	12	—	—	90
Female....	35	14	14	7	—	70	32	32	6	—	—	70

TOTAL DEATHS DURING THE YEAR 1923—BY MONTHS
FOR CITY OF LETHBRIDGE

	January	February	March	April	May	June	July	August	September	October	November	December	Total
ALL CAUSES	Total	9	14	10	13	13	13	9	10	12	18	12	160
Male.....	17	5	9	8	4	8	6	1	8	6	11	7	90
Female....	10	4	5	2	9	5	7	8	2	6	7	5	70

CAUSES OF DEATH DURING THE YEAR 1923—BY AGES AND SEXES
CITY OF MEDICINE HAT

	Sex	Under 1 yr.	1 year	2 years	3 years	4 years	Total under 5 years	5 to 9 yrs.	10-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70-79 years	80 years and over	Total
ALL CAUSES	Total	30	9	1	—	2	42	5	5	2	10	14	13	13	14	8	5	131
	Male	19	5	1	—	1	26	3	2	1	5	5	6	7	8	4	1	68
	Female	11	4	—	—	1	16	2	3	1	5	9	7	6	6	4	4	63
CLASS No. 1. GENERAL DISEASES	Total	5	4	1	—	1	11	1	3	1	2	4	3	3	—	—	—	28
	Male	4	3	1	—	—	8	1	1	—	1	3	1	1	—	—	—	16
	Female	1	1	—	—	1	3	—	2	1	1	1	2	2	—	—	—	12
1 (a) Typhoid fever	M	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
7 Measles	M	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—
8 Scarlet fever	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9 Whooping cough	M	2	2	—	—	—	4	—	—	—	—	—	—	—	—	—	—	4
	F	1	1	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2
10 Diphtheria	M	—	—	1	—	—	1	—	—	—	—	—	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11 (a) Influenza, with pulmonary complications specified	M	—	—	—	—	—	—	—	—	1	1	2	1	—	—	—	—	3
	F	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	3
(b) Influenza, without pulmonary complications specified	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	F	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
24 Meningococcus meningitis	M	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31/37 Tuberculosis	M	1	1	—	—	1	1	—	—	—	1	1	—	—	—	—	—	3
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	M	—	—	—	—	1	1	—	1	—	1	1	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	4
31 Tuberculosis of the respiratory system	M	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32 Tuberculous meningitis	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
38 Syphilis	M	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	2
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
CLASS No. 2. GENERAL DISEASES NOT INCLUDED ABOVE	Total	—	—	—	—	—	—	—	—	—	—	1	3	4	3	2	—	13
	Male	—	—	—	—	—	—	—	—	—	—	—	1	3	2	—	—	6
	Female	—	—	—	—	—	—	—	—	—	—	1	2	1	1	2	—	7
44 Cancer and other malignant tumors of the stomach and liver	M	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	3
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	1	2	—	4

[illegible]

CAUSES OF DEATH DURING THE YEAR 1923—BY AGES AND SEXES—Continued

CITY OF MEDICINE HAT

	Sex	Under 1 yr.	1 year	2 years	3 years	4 years	Total under 5 years	5 to 9 yrs.	10-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70-79 years	80 years and over	Total
CLASS No. 6. DISEASES OF THE DIGESTIVE SYSTEM	Total	3	3				6	2	1	1	2	2						17
	Male	3	2				5	1	1	1	2	1						13
	Female	—	1				1	1	—	—	—	1						4
111 (b) Ulcer of the duodenum	M											1						1
	F																	—
113 Diarrhoea and enteritis (under 2 years)	M	3	1				4											4
	F		1				1											1
117 Appendicitis and typhlitis	M																	—
	F							1		1	1							6
118 (b) Intestinal obstruction	M																	—
	F											1						1
119 Other diseases of the intestines	M		1				1											1
	F																	—
112 Cirrhosis of the liver	M													1				1
	F																	—
123 Biliary calculi (Gallstones)	M																	—
	F														1			1
CLASS No. 7. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA	Total	1					1					2			2		1	6
	Male	1					1					2			2		1	3
	Female	—					—					—			—		—	3
128 Acute nephritis (including unspecified under 10 years of age)	M																	—
	F	1					1											1
129 Chronic nephritis (including 10 years and over)	M														1			1
	F																	—
132 Calculi of the urinary passages	M														1			1
	F																	—
134 (a) Stricture of the urethra	M																	—
	F																	—
CLASS No. 8. THE PUERPERAL STATE	Total	—									1	1						2
147 Puerperal phlegmasia, alba dolens, embolus, sudden death	F																	1
	F																	—
148 Puerperal albuminuria and convulsions	F										1							1

TOTAL OF DEATHS DURING 1923—BY NATIONALITY AND SOCIAL CONDITIONS
CITY OF MEDICINE HAT

	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
ALL CAUSES	Total	20	16	24	—	131	67	47	15	1	1	131
	Male.....	10	7	9	—	68	42	21	4	—	1	68
	Female...	10	9	15	—	63	25	26	11	1	—	63

TOTAL DEATHS DURING THE YEAR 1923—BY MONTHS
CITY OF MEDICINE HAT

	January	February	March	April	May	June	July	August	September	October	November	December	Total
ALL CAUSES	Total	8	8	15	13	11	7	12	12	5	14	11	131
	Male.....	3	7	2	8	6	3	9	7	4	6	5	68
	Female...	5	1	13	5	5	4	3	5	1	8	6	63

CAUSES OF DEATH DURING THE YEAR 1923—BY AGES AND SEXES
FOR THE CITY OF RED DEER

	Sex	Under 1 yr.	1 year	2 years	3 years	4 years	Total under 5 years	5 to 9 years	10-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70-79 years	80 years and over	Total
ALL CAUSES	Total	8	2	—	—	—	10	—	—	—	5	1	2	5	2	5	4	37
	Male	5	1	—	—	—	4	—	—	—	5	1	1	3	1	3	2	23
	Female	3	1	—	—	—	—	—	—	—	—	—	—	2	1	2	2	14
CLASS No. 1. GENERAL DISEASES	Total	3	—	—	—	—	3	—	—	—	1	—	—	—	—	—	—	5
11 (a) Influenza, with pulmonary complications specified	Male	2	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	2
(b) Influenza, without pulmonary complications specified	Female	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
16 Dysentery (unspecified)	M	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	2
	F	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
CLASS No. 2. GENERAL DISEASES NOT INCLUDED ABOVE	Total	—	—	—	—	—	—	—	—	—	1	—	—	1	1	1	—	5
	Male	—	—	—	—	—	—	—	—	—	1	—	—	1	1	1	—	2
	Female	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
44 Cancer and other malignant tumors of the stomach and liver	M	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	1
51 Acute rheumatic fever	F	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	2
68 Chronic poisoning by organic substances	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1
CLASS No. 3. DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	Total	—	1	—	—	—	1	—	—	1	1	—	—	1	—	3	—	7
	Male	—	—	—	—	—	—	—	—	—	1	—	—	1	—	2	—	4
	Female	—	1	—	—	—	1	—	—	1	—	—	—	—	—	1	—	3
70 Encephalitis	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
74 (a) Cerebral hemorrhage, apoplexy	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
76 General paralysis of the insane	M	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	1
	F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
80 Infantile convulsions (under 5 years of age)	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	F	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	1
84 Other diseases of the nervous system	M	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	F	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	1

[illegible]

TOTAL OF DEATHS DURING THE YEAR 1923—BY NATIONALITIES AND SOCIAL CONDITIONS
CITY OF RED DEER

	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
ALL CAUSES	Total	18	12	6	1	37	19	13	5	—	—	37
	Male.....	10	8	4	1	23	12	8	3	—	—	23
	Female....	8	4	2	—	14	7	5	2	—	—	14

TOTAL OF DEATHS DURING THE YEAR 1923—BY MONTHS

CITY OF RED DEER

	January	February	March	April	May	June	July	August	September	October	November	December	Total
ALL CAUSES	Total	2	2	3	—	3	4	—	3	4	5	2	37
	Male.....	1	1	3	—	3	2	—	2	3	3	2	23
	Female....	1	1	—	—	5	2	—	1	1	2	—	14

CLASS No.	7.	NON-GENITAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA	Total	Male	Female
129	Chronic Nephritis (including unspecified, 10 yrs. and over)	M F	1 —	1 —	— —
CLASS No. 8. THE PUERPERAL STATE					
143	(a) Abortion	F	1	—	—
144	Puerperal Hemorrhage	F	1	—	—
CLASS No. 12. EARLY INFANCY					
	Total	3	2	1	—
	Male	2	—	—	—
	Female	1	—	—	—
160	Congenital debility, icterus and sclerema	M F	1 —	1 —	— —
161	(a) Premature birth	M F	1 1	1 1	— —
CLASS No. 13. OLD AGE					
	Total	2	2	—	—
	Male	2	—	—	—
	Female	—	—	—	—
164	Senility	M F	2 —	2 —	— —
CLASS No. 14. EXTERNAL CAUSES					
	Total	1	1	—	—
	Male	1	—	—	—
	Female	—	—	—	—
180	Accidental suffocation, overlying	M F	1 —	1 —	— —
182	Accidental drowning	M F	1 —	1 —	— —

TOTAL OF DEATHS DURING 1923—BY NATIONALITY AND SOCIAL CONDITIONS
CITY OF WETASKIWIN

ALL CAUSES	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
	Total	15	1	5	10	—	31	13	3	—	—	31
	Male..... Female....	8 7	— 1	2 3	4 6	— —	15 10 5	3 10	1 2	—	—	14 17

TOTAL DEATHS DURING THE YEAR 1923—BY MONTHS
CITY OF WETASKIWIN

ALL CAUSES	January	February	March	April	May	June	July	August	September	October	November	December	Total
	Total	3	3	5	5	2	2	1	—	4	3	2	31
	Male..... Female....	2 1	3 —	2 3	1 4	1 1	1 1	1 —	—	2 2	— 3	1 1	14 17

1113 Diarrhoea and enteritis (under 2 years).....	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1117 Appendicitis and typhlitis	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1118 (a) Hernia	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
(b) Intestinal obstruction	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CLASS No. 7. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ITS ANNEXA	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
129 Chronic nephritis (including unspecified, 10 years and over)	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CLASS No. 8. THE PUERPERAL STATE.... Total.....	F			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
147 Puerperal phlegmasia, alba dolens, embolus, sudden death	F			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
148 Puerperal albuminuria and convulsions	F			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CLASS No. 11. MALFORMATIONS	Total	Male	Female	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
159 (b) Congenital malformations of the heart.....	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CLASS No. 12. EARLY INFANCY	Total	Male	Female	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
160 Congenital debility, icterus and sclerema	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
161 (a) Premature birth	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
(b) Injury at birth	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CLASS No. 14. EXTERNAL CAUSES	Total	Male	Female	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
168 Suicide by hanging or strangulation	M	F	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96</				

CAUSES OF DEATH DURING THE YEAR 1923—BY AGES AND SEX—Continued
TOWN OF DRUMHELLER

CAUSES OF DEATH	Sex	Under 1 yr.	1 year	2 years	3 years	4 years	Total under 5 years	5 to 9 years	10-14 years	15-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70-79 years	80 years and over	Total
		M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	M F Total Male Female	
188 (a) Railroad accidents																		2
(b) Automobile accidents											1		1					1
CLASS No. 15. ILL-DEFINED DISEASES													1					1
205 (a) Ill-defined													1					1

TOTAL DEATHS DURING THE YEAR 1923—BY NATIONALITY AND SOCIAL CONDITIONS
TOWN OF DRUMHELLER

ALL CAUSES	Canadian	British	U.S.A.	Foreign	Not Stated	Total	Single	Married	Widowed	Divorced	Not Stated	Total
	Total Male..... Female....	12 4 8	13 8 5	8 4 4	— — —	77 47 30	47 32 15	28 14 14	2 1 1	— — —	— — —	77 47 30

TOTAL DEATHS DURING THE YEAR 1923—BY MONTHS
TOWN OF DRUMHELLER

ALL CAUSES	January	February	March	April	May	June	July	August	September	October	November	December	Total
	Total Male..... Female....	8 7 1	6 4 2	3 2 1	2 1 1	7 5 2	12 6 6	7 9 1	9 3 6	1 — 1	9 5 4	8 3 5	77 47 30

[illegible]

INFANTILE DEATH RATES, ETC., BY DIVISIONS, 1923

	Death Rate of Children Under One Year of age to each 1,000 Births			Births with or without a Physician in Attendance		Rate of Stillborn Children to each 1,000 Births
	Rate per 1,000 Births	Number of Deaths	Total Births	With Physician	Without Physician	
Division No. 1—Medicine Hat (City of Medicine Hat excepted)....	84.8	34	401	216	185	20.0
Division No. 2—Macleod (City of Lethbridge excepted).....	103.5	83	802	700	102	31.2
Division No. 3—Bow	97.7	34	348	234	114	23.0
Division No. 4—Nanton	85.7	30	350	318	32	17.1
Division No. 5—Acadia (City of Drumheller excepted).....	116.9	63	539	413	126	27.8
Division No. 6—Calgary (City of Calgary excepted)	90.7	74	816	706	110	31.9
Division No. 7—Battle River	70.5	68	964	785	179	24.9
Division No. 8—Red Deer (Cities of Red Deer and Wetaskiwin excepted)	72.9	80	1,098	869	229	32.8
Division No. 9—Rocky Mountain	65.9	25	379	233	146	29.0
Division No. 10—Victoria	108.7	148	1,362	484	878	11.0
Division No. 11—Edmonton (City of Edmonton excepted).....	73.5	67	911	516	395	18.7
Division No. 12—Edson	65.4	17	260	181	79	26.9
Division No. 13—Beaver River	115.4	66	572	129	443	15.7
Division No. 14—Sturgeon	108.2	83	767	285	482	29.9
Division No. 15—Clearwater	66.7	10	150	42	108	40.0
Division No. 16—Peace River	132.8	47	354	230	124	28.3
Division No. 17—Athabasca	135.1	10	74	10	64	54.1
City of Edmonton	88.5	173	1,955	1,899	56	25.6
City of Calgary	92.9	156	1,679	1,655	24	42.9
City of Lethbridge	113.9	41	360	351	9	44.4
City of Medicine Hat	87.7	30	342	332	10	35.1
City of Red Deer	100.0	8	80	80	0	50.0
City of Wetaskiwin	128.6	9	70	62	8	28.6
City of Drumheller	101.6	26	256	249	7	23.4
Divisions	91.6	929	10,147	6,346	3,801	24.7
Cities	93.4	443	4,742	4,633	109	34.2
Whole Province	92.2	1,372	14,889	10,979	3,910	27.7

(Indian Statistics not included)

CAUSES OF DEATH DURING THE YEAR 1923—FROM SELECTED CAUSES (IN COMPLETED MONTHS) OF CHILDREN UNDER ONE
YEAR, FOR THE WHOLE PROVINCE (INDIANS EXCEPTED) —Continued

CAUSES OF DEATH		Under one Month	1	2	3	4	5	6	7	8	9	10	11	Total
Sexes														
(b) Injury at Birth	M	22	—	1	—	—	—	—	—	—	—	—	—	23
	F	25	—	—	—	—	—	—	—	—	—	—	—	25
	M	29	1	—	—	—	—	—	—	—	—	—	—	30
	F	14	2	—	—	—	—	—	—	—	—	—	—	16
	M	49	14	22	15	8	9	4	7	5	7	2	—	142
162 Other Diseases peculiar to Early Infancy.....	M	35	13	12	8	9	7	7	—	4	3	4	2	104
	F													
All Others														
TOTAL.....	Male	396	72	79	58	31	43	25	22	25	21	14	7	793
	Female	292	55	46	29	31	31	28	12	27	7	13	8	579
	Total	688	127	125	87	62	74	53	34	52	28	27	15	1372

CAUSES OF DEATH DURING THE YEAR 1923—FROM SELECTED CAUSES (BY MONTHS), OF CHILDREN UNDER ONE YEAR OF AGE, FOR THE
WHOLE PROVINCE (INDIANS EXCEPTED)

CAUSES OF DEATH	MONTH IN WHICH DEATH OCCURRED												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
7 Measles	—	1	2	3	2	3	1	1	—	—	—	—	13
8 Scarlet Fever	1	1	1	—	—	2	—	1	1	—	1	1	9
9 Whooping Cough	1	5	2	5	6	3	4	5	10	3	7	2	53
10 Diphtheria	—	—	—	3	1	—	—	—	—	—	—	—	4
16 (c) Dysentery Unspecified	—	—	—	—	—	—	4	1	6	3	1	—	15
32 Tuberculous Meningitis	—	—	1	—	—	—	—	—	1	—	—	—	2
31/37 Tuberculosis	—	1	2	1	5	2	—	1	2	2	1	—	17
38 Syphilis	2	—	2	—	2	—	—	1	—	—	—	—	9
71 (a) Simple Meningitis	1	1	—	—	—	3	4	1	—	—	—	1	6
80 Infantile Convulsions (under 5 years of age)	2	2	2	1	2	1	4	4	2	1	—	—	21
99 (a) Bronchitis	2	2	2	—	2	—	—	—	1	1	—	—	11
100 (a) Bronchopneumonia	15	13	17	10	6	8	1	—	2	3	4	6	85
101 Pneumonia	7	7	7	12	3	3	4	—	4	2	—	6	55
112 Other Diseases of the Stomach	3	2	3	2	2	4	2	4	2	1	—	—	26
113 Diarrhoea and Enteritis (under 5 years)	8	2	3	11	8	11	15	27	35	34	17	3	182
159 Congenital Malformations	10	5	16	7	8	12	5	12	5	13	11	2	106
160 Congenital Debility, Icterus and Sclerema	16	10	19	10	9	8	5	12	9	9	13	9	119
161 (a) Premature Birth	30	31	20	36	28	24	35	23	16	13	16	27	299
161 (b) Injury at Birth	3	2	3	2	8	5	2	3	3	6	5	6	48
162 Other Diseases Peculiar to Early Infancy	3	4	3	3	3	5	4	4	2	3	8	4	46
All Others	27	27	49	31	23	14	10	17	11	12	14	11	246
TOTAL	131	114	152	138	118	108	96	116	112	107	98	82	1372

CAUSES OF DEATH DURING THE YEAR 1923—FROM SELECTED CAUSES (IN COMPLETED MONTHS), OF CHILDREN UNDER ONE YEAR
CITY OF EDMONTON

CAUSES OF DEATH	AGES IN COMPLETED MONTHS											Total	
	Under one Month	1	2	3	4	5	6	7	8	9	10		11
7 Measles	—	—	—	—	—	—	—	—	1	—	—	—	1
8 Scarlet Fever	—	—	—	—	—	—	—	—	1	—	—	—	1
9 Whooping Cough	—	—	1	1	—	1	—	—	—	—	—	1	5
16 (c) Dysentery Unspecified	—	—	—	—	—	—	—	—	1	—	—	—	1
31/37 Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	3
38 Syphilis	1	—	2	—	—	—	—	—	—	—	—	—	1
80 Infantile Convulsions (under 5 years)	—	—	—	—	—	—	—	—	—	—	1	—	1
100 (a) Bronchopneumonia	—	2	2	1	2	2	1	1	1	1	—	—	14
101 Pneumonia	—	—	1	—	1	—	1	1	1	—	—	—	6
112 Other Diseases of the Stomach	—	1	—	1	1	—	—	—	—	—	—	—	3
113 Diarrhoea and Enteritis	3	3	1	3	1	6	2	—	—	—	—	1	23
159 Congenital Malformations	19	2	1	—	—	—	—	—	—	—	—	—	22
160 Congenital Debility, Icterus and Sclerema	8	3	—	5	—	—	—	—	—	—	—	—	16
161 (a) Premature Birth	37	2	—	—	—	—	—	—	—	—	—	—	39
161 (b) Injury at Birth	6	—	—	—	—	—	—	—	—	—	—	—	6
162 Other Diseases Peculiar to Early Infancy.....	10	1	—	—	—	—	—	—	—	—	—	—	11
All Others	10	2	2	2	3	1	—	—	—	—	—	—	20
TOTAL	94	16	10	14	8	10	5	4	6	1	1	4	173

CAUSES OF DEATH DURING THE YEAR 1923—FROM SELECTED CAUSES (BY MONTHS) OF CHILDREN UNDER ONE YEAR OF AGE
CITY OF EDMONTON

CAUSES OF DEATH	MONTH IN WHICH DEATH OCCURRED												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
7 Measles	—	—	1	—	—	—	—	—	—	—	—	—	1
8 Scarlet Fever	—	1	—	—	—	—	2	1	—	—	—	—	1
9 Whooping Cough	—	—	—	—	—	—	—	1	—	—	1	—	5
16 (c) Dysentery	—	—	—	—	—	—	—	1	—	—	—	—	1
31/37 Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	1
38 Syphilis	—	—	—	1	1	—	—	—	1	—	—	—	3
80 Infantile Convulsions (under 5 years of age).....	—	—	—	—	—	—	—	—	—	—	—	—	1
100 (a) Bronchopneumonia	1	3	2	8	—	—	1	—	—	—	1	3	14
101 Pneumonia	1	2	—	—	—	—	—	—	—	—	—	—	6
112 Other Diseases of the Stomach	—	—	—	1	—	1	—	1	—	—	—	—	3
113 Diarrhoea and Enteritis (under 2 years of age).....	—	—	1	5	—	3	3	2	6	5	1	1	23
159 Congenital Malformations	1	4	5	—	—	2	—	5	1	1	4	—	22
160 Congenital Debility, Icterus and Sclerema.....	1	1	2	1	1	1	1	3	3	2	3	2	16
161 (a) Premature Birth	3	4	1	5	4	3	3	4	3	2	4	1	39
(b) Injury at Birth	—	1	2	—	1	1	1	1	1	1	1	1	6
162 Other Diseases peculiar to early Infancy.....	2	2	4	2	1	—	—	—	1	3	—	—	11
All Others	—	4	—	2	1	3	—	—	1	—	1	1	20
TOTAL	9	22	18	18	9	13	11	16	13	14	12	18	173

CAUSES OF DEATH DURING THE YEAR 1923—FROM SELECTED CAUSES (IN COMPLETED MONTHS) OF CHILDREN UNDER ONE YEAR
CITY OF CALGARY

CAUSES OF DEATH	AGES IN COMPLETED MONTHS												Total
	Under one Month	1	2	3	4	5	6	7	8	9	10	11	
7 Measles	—	—	—	—	—	1	—	—	—	1	—	—	2
9 Whooping Cough	—	—	1	—	—	—	—	—	1	—	—	1	4
16 (c) Dysentery Unspecified	—	—	—	—	—	1	—	—	1	—	—	—	2
32 Tuberculous Meningitis	—	—	—	—	—	—	—	—	—	1	—	—	1
38 Syphilis	—	—	1	—	—	—	—	—	—	—	1	—	2
71 (a) Simple Meningitis	1	—	—	—	—	—	—	—	—	—	—	—	1
99 (a) Acute Bronchitis	1	—	—	—	—	—	—	—	—	—	—	—	1
100 (a) Bronchopneumonia	—	2	—	—	1	1	—	—	2	3	—	—	9
101 Pneumonia	—	—	1	1	1	1	—	1	1	—	—	—	6
113 Diarrhoea and Enteritis (under 5 years of age)	4	3	4	6	5	5	1	1	4	1	1	1	38
159 Congenital Malformations	11	—	2	1	—	—	2	—	—	—	—	—	14
160 Congenital Debility, Icterus and Sclerema	2	—	1	1	—	3	—	—	—	—	—	—	9
161 (a) Premature Birth	30	4	1	1	—	—	—	—	—	—	—	—	35
161 (b) Injury at Birth	8	—	1	—	—	—	—	—	—	—	—	—	9
162 Other Diseases peculiar to Early Infancy	7	1	—	—	—	—	—	—	—	—	—	—	8
All Others	3	2	1	—	1	—	2	—	2	2	—	1	14
TOTAL	67	12	13	9	8	12	5	5	11	8	2	3	155

CAUSES OF DEATH DURING THE YEAR 1923—FROM SELECTED CAUSES (BY MONTHS), OF CHILDREN UNDER ONE YEAR OF AGE
CITY OF CALGARY

CAUSES OF DEATH	MONTH IN WHICH DEATH OCCURRED												Total
	January	February	March	April	May	June	July	August	September	October	November	December	
7 Measles	—	—	2	—	—	—	—	—	4	—	—	—	2
9 Whooping Cough	—	—	—	—	—	—	—	1	1	—	—	—	4
16 (c) Dysentery Unspecified	—	—	—	—	—	—	—	—	—	—	—	—	2
32 Tuberculous Meningitis	2	—	—	—	—	1	—	—	—	—	—	—	1
38 Syphilis	—	—	—	—	—	—	—	—	—	—	—	1	1
71 (a) Simple Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	1
99 (a) Acute Bronchitis	3	1	3	—	—	2	—	—	—	—	—	—	9
100 (a) Bronchopneumonia	1	1	1	1	1	—	—	—	—	1	—	—	6
101 Pneumonia	1	—	2	—	2	2	—	10	11	7	4	—	38
113 Diarrhoea and Enteritis	1	1	3	1	2	1	—	3	1	1	—	—	14
159 Congenital Malformations	—	1	1	—	2	—	—	—	4	2	1	—	9
160 Congenital Debility, Icterus and Sclerema	3	2	1	5	2	5	5	2	3	2	1	3	35
161 (a) Premature Birth	—	1	2	—	2	—	1	1	1	1	—	—	9
161 (b) Injury at Birth	—	—	—	2	—	—	—	—	—	—	2	3	8
162 Other Diseases peculiar to Early Infancy	1	2	4	1	3	1	1	—	—	—	—	1	14
All Others	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	11	10	20	10	12	12	7	17	25	15	5	8	155

VITAL STATISTICS BRANCH

VITAL STATISTICS, 1905 TO 1923 INCLUSIVE

YEAR	Births	Marriages	Deaths	Excess of Births over Deaths
1905	421	187	114	307
1906	3,003	927	1,091	1,912
1907	4,732	1,907	1,578	3,154
1908	5,973	2,032	2,188	3,785
1909	6,897	2,384	2,662	4,235
1910	8,231	3,086	3,526	4,705
1911	8,813	3,630	3,618	5,195
1912	10,284	4,429	4,232	6,052
1913	11,871	5,053	4,432	7,439
1914	13,685	4,623	4,147	9,538
1915	13,452	4,202	3,588	9,864
1916	13,331	4,230	4,058	9,273
1917	13,576	4,270	4,047	9,529
1918	14,890	4,048	7,924	6,966
1919	14,130	4,718	5,507	8,623
1920	16,565	5,110	5,675	10,890
1921	16,414	4,661	4,940	11,474
1922	16,163	4,272	5,281	10,882
1923	15,153	4,117	4,843	10,320

POPULATION, BIRTH, MARRIAGE AND DEATH RATES

Population (Estimated for 1923)	588,454
Birth Rate per 1,000 (1923)	25.75
Marriage Rate per 1,000 (1923)	7.00
Death Rate per 1,000 (1923)	8.23

RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

YEAR	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	YEAR	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
1901	1,081	3.55	1912	1,084	2.43
1902	1,010	2.59	1913	1,053	2.67
1903	1,056	2.95	1914	1,081	3.30
1904	1,118	3.04	1915	1,100	3.47
1905	1,059	3.11	1916	1,063	3.29
1906	1,094	2.07	1917	1,061	3.25
1907	1,075	2.96	1918	1,069	1.88
1908	1,077	2.73	1919	1,074	2.56
1909	1,086	2.59	1920	1,055	2.92
1910	1,065	2.69	1921	1,055	3.32
1911	1,103	2.43	1922	1,034	3.06
			1923	1,072	3.13

DEATHS OF INFANTS UNDER ONE YEAR, DURING THE YEAR 1923

To 1,000 Births	90.54
To 1,000 Deaths from all Causes	283.29
Stillbirths	413

